

MM - 5 (884)

Pr. Sheila A. Schuette Monsanto Company 700 14th Street, NW., Suite 1100 Washington, DC 20005

Dear Dr. Schuette:

Subject: MON-35085 Herbicide (Supplemental Label for Small Grains in South Dakota)

EPA Registration Ho. 524-445

Your Letter Dated March 10, 1992

The amendment referred to above, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (PIFRA), is acceptable provided that you:

- 1. Submit/cite all data required for registration/reregistration of your product under PIFRA section 3(c)(5) and section 4 when the Agency requires all registrants of similar products to submit such data.
- Submit five (5) copies of your final printed labeling before you release the product for shipment.
- 3. This labeling with the brand name "Roundup Herbicide" will become effective July 1, 1992.

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If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

Robert J. Taylor Product Manager (25) Pungicide-Herbicide Branch Registration Division (H7505C)

Enclosure

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Monsanto

Monsanto Company Suite 1100 700 14th Street, N.W. Washington, D.C. 20005

March 10, 1992

Office of Pesticide Programs - H7504C
Document Processing Desk
U.S. Environmental Protection Agency
Room 226A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, Virginia 22202

Attention:

Mr. Robert J. Taylor

Product Manager (25)

Subject:

4 1

MON-35085 Herbicide (EPA Reg. No. 524-445)

Submission of Supplemental Labels

Dear Sir:

In a companion letter, also dated March 10, 1992, Monsanto requested that the brand name Roundup® be added to EPA Reg. No. 524-445, effective July 1, 1992. Monsanto now requests that the following Roundup herbicide supplemental labels also be approved for EPA Reg. No. 524-445, effective July 1, 1992. These supplemental labels have all been previously approved by the Agency under EPA Reg. No. 524-308.

Crop Uses:

- 1. Nonselective Control of Listed Annual Weeds in Small Grain Cropping Systems for distribution and use only within South Dakota.
- 2. Postemergence Herbicide for Suppression of Quackgrass in Conventionally Tilled Annual Cropping Systems where Tillage has Occurred in the Previous Fall for distribution and use only in the states of Minnesota and South Dakota.
- Preharvest Weed Control in Cotton for distribution and use only in west Texas.
- 4. Aerial Application for Johnsongrass Control Post-Harvest to Corn, Grain



Sorghum (Milo), and Wheat - for distribution and use only within New Mexico, Oklahoma and Texas.

5. Control of Field Bindweed under Irrigated Situations where Tillage is Performed - for distribution and use only in California.

Noncrop Uses:

- 1. Foliar Application to Suppress Growth and Seedhead Development of Listed Turf Species in Industrial Sites for California only.
- 2. Low-Volume Backpack Applications of Roundup Herbicide for Trees and Brush.
- 3. Tank Mixtures of Roundup Herbicide Plus Arsenal™ Applicators Concentrate for Forestry Site Preparation Prior to Planting Douglas Fir in Washington and Oregon.
- 4. Roundup Herbicide Plus Arsenal 2 WSL for Noncrop Areas such as Non-Irrigation Ditchbanks, Dry Ditches, Dry Canals, Fencerows, Roadsides, Industrial Sites, Pipelines, Utility Rights-of-Way and Railroads.
- 5. Roundup Plus Diuron Plus Atrazine Herbicide Tank Mixture for Control or Partial control of Herbaceous Vegetation Only on Railroad Rights-of-Ways.
- 6. Roundup Herbicide Plus Garlon™ 4 Tank Mixture for Burndown and Partial Control or Suppression of Woody Brush and Weeds in Industrial Sites.
- 7. Roundup Herbicide Plus Oust™ and 2,4-D Amine for Noncrop Areas, Including Railroad Rights-of-Way, Utility Substations, Airports, Industrial Plants, Pipelines, Roadsides, Storage Areas, and Similar Sites.
- 8. Roundup Tank Mixture Combinations with 2,4-D Amine and Oust for Control of Trumpetcreeper and Johnsongrass on Railroad Rights-of-Way.
- 9. Tank Mixture of Roundup Plus Garlon 4 for Side Trimming of Woody Brush in Roadside and Right-of-Way Areas for distribution and use only in Oklahoma and Texas.
- 10. For Ground and Aerial Application to Brush and Chaparral in California only.
- 11. Roundup Herbicide for Forestry and Utility Rights-of-Way.

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Enclosed are five (5) copies of each of the amended supplemental labels for Agency approval and stamping. If you have any questions regarding this request, please contact Dr. Russ Schneider or me.

Sincerely,

Sheila A Schuette, Ph.D.

Senior Registration Specialist

(314) 694-7248

cc: R.P. Schneider

D.P. Ward

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R.G. Danhaus

S.D. Schuette

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PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to average 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gatheding and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

<u>INSTRUCTIONS</u>: This form is to be used for all applications for new registration, end use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
- 2. Confidential Statement of Formula (EPA Form 8570-4):
- Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling:
- 5. Three copies of any data submitted;
- 6. Authorization letter where applicable;
- 7. Matrices where applicable.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper or a mockup of the proposed label. If prepared as a mockup, it should be constructed in such a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 8.5 x 11 inch paper for submission. Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections 1, 111, and 1V must be completed by the applicant. For applications submitted in connection with amended registration actions, resubmissions, notifications, reregistrations, etc., Sections 1, 11, and 1V must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

SECTION I - This section must be completed, as applicable, for all registration actions. -

- 1. Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned; to you as a basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- 3. Proposed Classification Specify the proposed classification of this product.
- 4. Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 6. Expedited Review FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other posticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.
- SECTION II This section must be complated for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.
- 1. Subject of submission Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)", "amend the Confidential Statement of Formula by...", "reregistration submission", general label revision of use directions. "Attach a separate page if additional space is needed.

SECTION III (Packaging and Container Information) - this Section must be completed for all applications submitted in connection with new registration or applicable amendments.

- 1. Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types. Indicate the size of the individual packets and mumber per retail@container.
- 3. Location of Net Contents Specify the net contents of all retail containers for your product.
- 4. Size(s) of Retail Container Specify the net contents of all retail containers for your product. --
- 5. Location of Use Directions Indicate the location of the use directions for your product.

White EPA File Copy (engine)

6. Manner in which label is affixed to product - Indicate the method product labelis attached to retail container.

SECTION IV (Contact Point) - This section must be completed for all applications for Registrations extrapos actions.

- i.e., mem products registration, resubmission, "me-too," reregistration, etc. 1-5. Self-explanatory.
- 6. EPA Use Only.

3/10/92

Shella A. Schuette, Ph.D. 80014/761-616-0-5891:090.Eu



United States Environmental Protection Agency Washington, DC 20460

CERTIFICATION WITH RESPECT TO DATA COMPENSATION REQUIREMENTS Approval Expires 12-31-92

Form Approved

OMB No. 2070-0106

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Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, DC 20460; and to the Office of Management and Budget, Paperwork Reduction Project (2070-0106), Washington, DC 20503.

Please fill in blanks below.

Company Name	Company Number
Monsanto Company	524
Chemical Name	EPA Chemical Number
MON-35085	445

I Certify that:

- 1. A For each study cited in support of registration or reregistration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) that is an exclusive use study, I am the original data submitter, or I have obtained the
- i written permission of the original data submitter to cite that study.
- 2. That for each study cited in support of registration or reregistration under FIFRA that is NOT an exclusive use study. I am the original data submitter, or I have obtained the written permission of the original data submitter, or I have notified in writing the company(ies) that submitted data I have cited and have offered to: (a) Pay compensation for those data in accordance with sections 3(c)(1)(D) and 3(c)(2)(D) of FIFRA; and (b). Commence negotiation to determine which data are subject to the compensation requirement of FIFRA and the amount of compensation due, if any. The companies I have notified are: (check one)
 - All companies on the data submitters' list for the active ingredient listed on this form (Cite-All Method or Cite-All Option under the Selective Method). (Also sign the General Offer to Pay below.)
 - [] The companies who have submitted the studies listed on the back of this form or attached sheets, or indicated on the attached "Requirements Status and Registrants' Response Form,"
- 3. That I have previously complied with section 3(c)(1)(D) of FIFRA for the studies I have cited in support of registration or reregistration under FIFRA.

Signature			Date
. Jus dininae	for	Dr. Shaila Schwette	3/26/92
Name and Title (Please Type or Print)			
Russell P. Schneider,	Ph.D.	, Agricultural Regulation Di	rector

GENERAL OFFER TO PAY: I hereby offer and agree to pay compensation to other persons, with regard to the registration or reregistration of my products, to the extent required by FIFRA sections 3(c)(1)(D) and 3(c)(2)(D).

Signature				<u>-</u> -		Date	4.
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Name and Title (Please Type or Print) RUSSelf P. Schneider Ph	n 4	ian ia		al Page	valtion Rin		.10

SUPPLEMENTAL LABELING

READ AND FOLLOW THE ENTIRE LABEL FOR ROUNDUP® HERBICIDE BEFORE PRO-CEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup and this supplement.



Under the Federal Inspetitide, Fungicide, and Redendede Act, as anominal, for the positione registered under the position of t

EPA Reg. No. 524-445

FOR DISTRIBUTION AND USE ONLY WITHIN SOUTH DAKOTA.
FOR NONSELECTIVE CONTROL OF LISTED ANNUAL WEEDS
IN SMALL GRAIN CROPPING SYSTEMS.

Keep out of reach of children. WARNING!

In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000.

Rounduptis a registered trademark of Monsanto Company.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with the labeling.

This label must be in the possession of the user at the time of the herbicide application.

ANNUAL WEED CONTROL WEEDS CONTROLLED

Refer to the "RECOMMENDED RATES AND WEEDS CONTROLLED" section of the label booklet for Roundup for rate recommendations and the annual weeds controlled.

APPLICATION INSTRUCTIONS

For ground applications, use 3 to 5 callons of water per acre. For aerial applications, use 1 to 3 callons of water per acre.

ATTENTION

AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS.

Do not allow the herbicide solution to mist, drip, drift, or splash onto desirable vegetation since minute quantities of this herbicide

can cause severe damage or destruction to the crop, plants or other areas on which treatment was not intended. The likelihood of injury occurring from the use of this product is greatest when winds are gusty or in excess of 5 miles per hour or when other conditions, including lesser wind velocities, will allow spray drift to occur. When spraying, avoid combinations of pressure and nozzle type that will result in splatter or fine particles (mist) which are likely to drift, AVOID APPLYING AT EXCESSIVE SPEED OR PRESSURE.

NOTE

- To prevent injury to adjacent desirable vegetation, appropriate buffer zones must be maintained.
- Adjust boom height on ground equipment to prevent streaked, overlapped or uneven applications. Coarse sprays are less likely to drift; therefore, do not use nozzles or nozzle configurations which dispense spray as fine spray droplets.
- In aerial applications, do not angle nozzles forward into the alistream and do not increase spray volume by increasing nozzle pressure.
- Ensure uniform application. Use appropriate marking devices when applying herbicides by air.

- Avoid spraying when weeds are subject to moisture stress, when dust is on foliage, or when straw canopy covers the weeds.
- Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove residue of this product accumulated during spraying or from spills. PROLONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES MAY RESULT IN CORROSION AND POSSIBLE FAILURE OF PART. LANDING GEAR ARE MOST SUS CEPTIBLE. The maintenance of an organic coating (paint) which meets aerospace specification MIL-C-38413 may prevent corrosion.

All applicable directions, restrictions and precautions on the EPA registered label are to be followed.

Read the "LIMIT OF WARRANTY AND LIA BILITY" in the label booklet for Roundus before using this product. Those terms apply to this supplemental labeling and, it those terms are not acceptable, return the product unopened at once.

O MONSANTO COMPANY

MONSANTO COMPANY AGRICULTURAL PRODUCTS ST. LDUIS, MISSOURI 63167



Dr. Sheila A. Schuette Monsanto Company 700 14th Street, NW., Suite 1100 Washington, DC 20005

Dear Dr. Schuette:

Subject: MON-35085 Herbicide (Add the Brand Name "Roundup Super Concentrate Grass & Weed Killer") EPA Registration No. 524-445 Your Letter Dated March 10, 1992

The registration record for the product named above has been amended to include the additional brand name "Roundup Super Concentrate Grass and Weed Killer." This name will be effective under the file number on July 1, 1992.

The labeling referred to above, submitted in connection with registration under the Pederal Insecticide, Pungicide, and Rodenticide Act, as amended, is acceptable. Please submit five (5) copies of your final printed labeling before you release the product for shipment. A stamped copy of labeling is enclosed for your records.

This labeling will become effective July 1, 1992.

Sincerely yours,

Robert J. Taylor Product Manager (25) Pungicide-Herbicide Branch Registration Division (H7505C)

Enclosure

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Monsanto

Monsanto Compthy Suite 1100 700 Hith Street, N.W. Washington, D.C. 20005

March 10, 1992

Office of Pesticide Programs - H7504C Document Processing Desk U.S. Environmental Protection Agency Room 226A, Crystal Mall #2 1921 Jefferson Davis Highway Arlington, Virginia 22202

Attention:

Mr. Robert J. Taylor

Product Manager (25)

Subject:

4 1

MON-35085 Herbicide (EPA Reg. No. 524-445)

Addition of Brand Name / Submission of Amended Labels

Dear Sir:

Monsanto requests that the following brand name be added to EPA Reg. No. 524-445, effective July 1, 1992:

Roundup® Super Concentrate Grass & Weed Killer

Enclosed are five (5) copies each of the amended label texts for Roundup Super Concentrate Grass & Weed Killer (1 quart and 1 gallon sizes) for your approval and stamping. These labels are identical to the MON-35085 Super Concentrate Grass & Weed Killer label that was approved by the Agency on March 18, 1991, with the following minor changes:

- 1. The statement "Mix 3 to 5 tablespoons" was added to the front panel to aid the user in converting from fluid ounces to tablespoons.
- 2. The new wetlands statement has been added to the Environmental Hazards section.

Monsanto requests that you approve and stamp these amended labels. If you have any questions regarding this request, please contact Dr. Russ Schneider or me.

Sincerely,

Sheila A. Schuette, Ph.D. Senior Registration Specialist

(314) 694-7248

cc: R.P. Schneider

D.P. Ward

D.E. Brock

S.D. Schuette

Please read instructions on reverse before completing form.	Form Approved, OMB No. 20	070-0060 Approval expires 11-30-93
(A) United States Environmental Prote		tion OPP Identifier Number
(A) SEPA United States Environmental Prote Office of Pesticide Programs Washington, DC 2048 Application for Pe	(H/303C)	
Application for Pe	LJ	156755
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Section	I	
Company/Product Number	2. EPA Product Manager	3. Proposed Classification
Monsanto/524-445	Robert J. Taylor	
Company/Product (Name)	PM#	None Restricted
MON-35085 Herbicide	25	
5. Name and Address of Applicant (Include ZIP Code)	6. Expedited Review. In accordar	nce with FIFRA Section 3(c)(3)
Monsanto Company	(b)(i), my product is similar or identi	
700 14th Street, N.W.	to:	
Suite 1100	EPA Reg. No	
Washington, D.C. 20005	EFA Neg. No	
Check if this is a new address	Product Name	· · · · · · · · · · · · · · · · · · ·
Section I I		
	Final printed labels in response to	······································
Amendment - Explain below	Agency letter dated	
Resubmission in response to Agency letter dated	*Me Too* Application.	•
Notification - Explain below.		
Hounday) - Expans ocion.	Other - explain below.	
Explanation: Use additional page(s) if necessary. (For section) and 5	Section II.)	······································
1 1		•
 Addition of new brand name: Round 	dup® Super Concentrate Gra	iss & Weed Killer
Submission of amended label text		
F		
Section III		
Material This Product Will Be Packaged In:		
Child-Resistant Packaging Unit Packaging Water	r Soluble Packaging 2. Type of C	Container
Yes* Yes		Metal
X No A	· · · · · · · · · · · · · · · · · · ·	Plastic Glass
	**************************************	Paper
1	s," No. per age wgt. container	Other (Specify)
submitted, 1 qt.,1 gal 12 case/4 case	2 1	<u>-</u>
3. Location of Net Contents Information 4. Size(s) of Retail C	ontainer 5 Location of Lab	el Directions
X Label. Container 1 qt., 1 gal	L. On Label On Labelin	ng accompanying product
Manner In Which Label is Affixed To Product Lithograph	Other (1
X Paper glued Stendled	Control Control	
Section IV	,	· · · · · · · · · · · · · · · · · · ·
1. Contact Point (Complete items directly below for identification of indi-	 	cess this application.)
Name Title A	Agricultural Regulations	elephone No. (Include Area Code)
B 11 B C L L L B B B		(202) 783-2460
· · · · · · · · · · · · · · · · · · ·		
Certification	<u>-</u>	6. Date Application .
I certify that the statements I have made on this form and all attachme		
I acknowledge that any knowingly false or misleading statement may both under applicable law.	oe punisnatore by line or imprisorment or	r (Stamped)
2. Signature 3. Tide		
.	Registration Specialist	1.6
Shula aprille Senior	REGISCIOCION OPERALES.	, Α
4. Typed Name 5. Date		
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Sheila A. Schuette, Ph.D.	3/10/92	6. EPK Use Oniv.
	-	

- Yellow - Applicant copy

PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to average 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, PH-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

INSTRUCTIONS: This form is to be used for all applications for new registration, end use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)]:
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling:
- 5. Three copies of any data submitted;
- 6. Authorization letter where applicable:
- 7. Matrices where applicable.

THE THE STATE STATE OF STATE OF

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on B.5 x 11 inch paper or a mockup of the proposed label. If prepared as a mockup, it should be constructed in such a way as to facilitate storage in an 8.5 x.11 inch file. Mockup labels significantly smaller than 8.5×11 inches should be mounted on 8.5×11 inch paper for submission. Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First, f determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections 1, III, and IV must be completed by the applicant. For applications submitted in connection with amended registration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant. Block A - Check the appropriate action for which you are submitting this form.

SECTION I - This section must be completed, as applicable, for all registration actions.

- 1. Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned. to you as a basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- Proposed Classification Specify the proposed classification of this product.
- 4. Product Name Enter the complete product name of this posticide as it will appear on the label...The name must be 🧸 👑 specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 6. Expedited Review FIFRA section 3 (c) 3.(B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other pesticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to oriidentical to your product. The product must be ways similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency Letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a <u>specific</u> EPA-registered product. This section is not to be used for a new application for registration.

1. Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; general label revision of use directions." Attach a separate page if additional space is needed.

SECTION III (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

- 1. Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types. Indicate the size of the individual packets and number per retail container.
- 2. Type of Retail Container Indicate type of container in which product will be marketed.
- 3. Location of Net Contents Specify the net contents of all retail containers for your product.
- 4. Size(s) of Retail Container Specify the net contents of all retail containers for your product.

- 5. Location of Use Directions Indicate the location of the use directions for your product. \sim
- 6. Manner in which tabel is affixed to product Indicate the method product tabel is attached to retail container.

in health for providing SECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "me-too," reregistration, etc.

- 1-5. Self-explanatory. [
- 6. EPA Use Only.

+U.S.GPO:1992-0-819-157/41085

RITEP PEOPLE AND PETS OFF TREATED AREAS UNTEL SPHUM BOLUTION HAS DRIED

DOMESTIC ANSWALS: This product is considered to be restativosis nontoxic to slogs and other domostic animals. However, imposition of this product or large amounts of freshly agrayed vegetation may tesult to temporary analighmestical hytation (vorsings, digurban, color, etc.) Ill such symptoms are observed, provide the animal with planty of flaids to prevent dehydration. Call a vetorinal an if symptoms possist for more than 24 hours.

ADDITIONAL PRECAUTIONS

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVA-NIZED STEEL OR UNLINED BY BELL TEXCEPT STARL LESS STEEL! CONTAINERS OR SPINAY TANKS THE production apray ablutions of this product road with such postainers and broke to produce hydrogen gas which may form a trighty combustito gas multure. This gas mixture could flash or explode, chumng serious parsonal injury. a ignised by open flame, spark, welder's forch, lighted classing or other ignition source.

DIRECTIONS FOR USE

A is a viplance of Federal law to use this product in any priladel ati fliw indizianoani connem

Repunding is a nonantective heronoide that is diluted and applied to the splispe of actively proming words as a spot Or brondensi application. It is absorbed by this makes what

> PRONE OF PURCIUSE

moves teconolout the stem and roots to control the exthe plant, which ayreptoms may require a weak or more to proceed with burndown extrally occurring in 2 to 4 weeks. Symptoms ere a gradual willing and yailowing of Indicated plant tolored by delerioration of both shoots and roots. This product has no harbicidal activity in the soil and without wash or leach to alled namely registation.

This product powered many woods ground buildings. vocam loss storage and socrapisonal atoms, gravel or ground bark makiti. shade trees, ornamentals and shrubs; along torkes, wdo-alies, birenways and police; and one to obtain a tarigrapees, sharing, flower bods or vegetables listed on the fated. When used as a seed froatmen in igwing, all vegotation comacted will be domaged.

THIS PRODUCT CAN HAURE OR DESTRUCT ALL VEGETATION CONTACTED ANDID SPRAY DIRECTIONS TACT WITH DESIGNABLE LAWN GRASSES FLOWERS YEDETABLES, SHRUBS OR TREES, DO NOT COM-TACE GRUTEN BATTA OF TREES OR SHIPLISS # DESIDABLE VEGETATION IS CONTACTED WAS I IMMEDIATELY WITH WATER.

You many conduct information, call toliston 🦠 1-000-221-2003

Storage hist Disposal

Do not contaminate water, found, field in select by storage or disposati

STORAGE

Store this product in an original complete and in a sacured youage area

in case of SPILL or LEAK, sook up with paper rowers and diac ará sa icabh

DISPOSAL

To dispose of enumed product, according wrap or good conto have at serveral tayors of newspoper and discerd in treat.

Emais companies (Blains vapor and product residue. Observe all inhebed trainguands until comminer is discarded.

On not region demands on: River there is give to kee discarding in Hash.

WEEDS CONTROLLED

When applied as recommended ender the conditions described. Houndup controls trans common words including the following:

Annuale

Permissings, Fold **Валиото**раза Ріджової недгоді, стосью ∰ungress, engual Ciscassed Ridwood, common Colograss Rencrass annuel Sandhur, tiefd

Foulpe Lambaquarter, common Langues prickly

Musterd, factor Paresolate

Cescure, laif

Bahiaceass Bermudagrass Bindwood, Jiaká Bluegrass, Kerdecky சூர்கள் தொக்கள், களுக்குள் Clover; red, white Dallingrass Dandalion Fescua specias

and magnetistics. Ordinations: Chatyd.esa Ярыстака, реголюві Thistia Canada

Shaphardsoursa

Southfallo

Under :--

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an din. ropiniess EPA Rog. ica.

Huscos or purple, yellow *incom Vasovoješa

A cor Dischingery Cherry Cowtoney

Elderberry

Kudzu

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MIXING AND SPRAYING

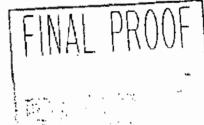
Do not apply this prodect through any type of hrightish

Hand-held Sprayers Add 1-17 to 2-17 feig games 13 to 3 theo, I all this product to a gallan of clean wester. Use the elainmened ballett to leaknot sol plan bobnemmenet renigin and brush, Use pump-up-type or hand-higger type core-AT USE OF HOSE-END SPRAYERS OR SPRINKLER-TYPE DEVICES MAY RESULT IN FOOR ANDIOR ERRATIO RESULTS.

Entere describe and complete spray coverage, but de not spray places to the point that the spray solution runs on. Use a course sprey to rea spray outing windy conditions. as aprey that many cause demogo to any venetation COMMERCIAL.

WHEN TO APPLY

Apply to vigorously proteing plants. Apply to annual woods anytime after emergencis. For book results, apply to perennial weeds after seechands, limeats of barrios appear. On woody brush or seest, espily allow leaves have bully expanded. Applications made at lass than the tacommended stage of growth may result in reduced core troi. After moving, clipping or lifting, allow weeds to



BASE

Perk agrigaces \$140 (9.00\$

tigh By 1g begreate and Democrat bouses.

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Reep out or repen of prequent
WARNING! CAUSES SUBSTANTIAL QUIT ES REPORTER
EXT INJURY HARVILL IT INHALIO Do not per en eves or
beatine agrain must be get in or on continue; when gargies have
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handling. Remove ponjamented tretting, and wash theire repeate
anding. Remove ponjamented tretting, and wash theire repeate.

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Super Concentrate



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WARNING! "HALLES

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Commute ** present **不利用)以**(17)4

Keep out of reach of children. NET 32 fl. oz. (1 qt)

P247400314

regrow to the recommended growth stops before agreeing this product.

Paintall or watering within \$ hours after application can wash the product off plant tellings which may require retreatment. Delay mowing, clipping, litting, planting or sodding of treated across to at reast 2 days after application. This allows time by this product to move within the plant for most effective results. SINCE THE PHODUCT DOES NOT WORK IN SOIL, RETREATMENTS WILL BE NECESSARY TO CONTHOL NEW WIEDES EMERGING FROM SEED.

One application will control most weed a listed. Symptoms on certain totally personnel was as weedly brush and size appared may be allow to devision. If control is not achieved within 4 weeks, allow time for the appayed weeds to regrow and make a recent application. In some cases, control of woody brush and treas trained in the fail may not builtly appoint until the following sesson.

Bast reacts are obtained when at least one mowing is shipped prior to freatment. This provides representative to intercept the spray. For areas where rengation and respecting is desired, thorough spray coverage of all distilling vegetation is necessary. Delay planning or sociating of tractal areas for at least 7 days other application.

OPLIAMENTALS

LAWN RENOVATION

Any draminated species may be planted in treated gross 7 days or more siter application. Apply this product as recommended to corred undestrable vegetation growing around presentanties, trees to strike away contact with any destrable plants. To avoid mury on destrable plants, prevent spray or strik contact with fallings, stores or green bath. Do not spray both, or over the top of, proving oning manipile.

THEES: Apply, Circs, Not, Pent AND GRAPE LINES

Apply this product to control understrable plants growing around those frees and vines. Spray contact, other has with mature bank of the main trunk, can injure the free of vine. Affew 21 days between application and harvest.

BERMES, SMALL FRUIT & VEGETABLE GARDENS

The following vagolatios may be plantag in maxind praps? It days or more after applications expansions, beens, beet greans, threat, black borry, brochary, borsenborry, brochott, cabbage, carrott, dawlidower, celary, chicary, corn, conherry, cuclumber, current, dawbetry, biserborry, eggilant, griftle, gours, goossterny, brassensists, mobiletorry, decualism artichako, kala, lenids, lativica, logandariy, metana, musterid greens, chic dishiphory, onlon, paramas, peets, poppores, lista and sweet posteros, nimulani, esca, posteros, lista and peets and season, con continuos, water casa, wolcomologia and fur app in little treated alread, con cell piech any regolabilità notificad on this tabel for one year following application. De not apply this product in or arburned growing vegolabilità.

"Committee depression of the committee o

CLEANING EQUINNERS

Traininise spray tack and flust all sprayer components with water to remove tenders of this product, Attel whorough intering, equipment may be used to apply other products.

to case of an emergency involving this product.

Call Extent, day or night, (314) 694-4000

Roundup* Super Concentrate Grass & Weed Killer

Norselective Authibide for lawn and garden ase.

Anald spray on describing plants as sivera injury of destruction may insuff.

Head "NOTICE" is cost plragraph bolder buying or uping the myor her herecombin return as onto upopped

MOTICE: DUYER ASSUMES ALL RESPONSIBLITY FOR SAFETY AND USE NOT IN ACCORDANCE WITH DIRECTIONS IN THIS LABELING.

REPORMULATION OF REPACKAGING IS PROHIBITED.

ACTIVE INCOFFINER

*Contains 460 grams par litre or 4 pounds per U.S. failion of glyphosale, N-(chosphonomelhylighycine, in the form of its isopropylaming sell,

This product is projected by U.S. Patent No. 4.405.201. Other patents pending. No ficense granted under any non-U.S. patentis).

OMONSANTO COMPANY 1992

MONSANTO COMPANY AGRICULTURAL PRODUCTS ST. LOUIS, MISSOURI 62167 U.S.A. Carefully read and robow detailed improvidence in pumphist.

PRECAUTIONARY STATEMENTS

Hazards to Hemans and Contestic Amount

Keep out of reach of children

WARNING! CRESES SUBSTANTIAL BUT TEMPORARY EVE INJURY, HARMFUL IS INTIAL EO. Do not get in even or brostne agray mist or get in or on clothens. West gasgies, less shield or safety events. Wash into oughly with your and water their handling. Remove contaminated clothing and wash before revise.

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Physical or Chemical Hazards

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Dr. Sheila A. Schuette Monsanto Company 700 14th Street, NW., Suite 1100 Washington, DC 20005

Dear Dr. Schuette:

Subject: MON-35085 (Add the Brand Name "Roundup" and Submit Final Labels with Name)

EPA Registration No. 524-445

Your Letter Dated March 10, 1992

amended to include the additional brand name "Roundup" including Roundup in the C-Pak Container. This name will be effective under this file number on July 1, 1992.

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records.

The above labeling will become effective July 1, 1992.

Sincerely yours,

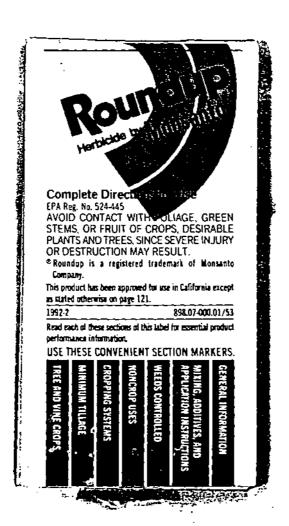
Robert J. Taylor Product Manager (25) Fungicide-Herbicide Branch Registration Division (H7505C)

Enclosure

56075:I:A-4:Taylor:WP25-4:KEVRIC:03/30/92:04/30/92:rj:dd:rj

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Complete Directions for Use EPA RM. NO. 324-45 AVOID CONTACT WITH VOLTAGE. GREEN STEMS. OR FRUIT OF CROPS. DESIRABLE PLANTS AND TREES. SINCE SEVERE INJURY

OR DESTRUCTION MAY RESULT.

*Roundup is a registered findermark of Monstale Company

This product has been approved for our in California except as started otherwise on page 121.

1917-2

Read Each of these sections of this label to expende product pedatable district.
USE THESE CONVENIENT SECTION MARKERS.

Resd the entire label before using this product.

Use only according to takel incorrections.

Read "LIMIT OF WARRANTY AND LIABILITY" before buying or using. If terrors are not acceptable, retern of once snapsered.

REFURMULATION IS PROMIBITED. SEE INDIVIDUAL CONTAINER LABEL FOR REPACKAGING HIMITATIONS

LIMIT OF WARRANTY AND LIABILITY

(Mot applicable to consumer applications applied by the bomeowner for noncommercial purposes as permitted by the supplemental labeling for ane-quark contensors.)

This Company warrants that this product conforms to the chemical description on the tabel and in reasonably fit for the purposes set to the in the Complete Directions for Use label booklet ("Directions") when used in accordance with those Offerctions under the conditions described three in NO OTHER ELPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICILAR PURPOSE OR MERICHANITABILITY IS MADE. This warranty is also subject to the conditions and limitations stated hereic.

Buyer and all insers shall promptly notify this Company of any claims whether based in contract, negligence. Uniet fiability, other tort or otherwise.

Buyes and all users are responsible for all less or damage from use or handling which renaits from conditions beyond the control of this Company, including, but not limited to, incompatibility with products orien than these

set forth in the Directions, application to or contact with desirable veretation, unuqual weather, weether condutions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as woulder decataons which are outside the application ranges set forth in the Direc-Lions, application to any marmer not explicitly set forth in the Directions, manual conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in an anime will, crop or bested regetation. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LINES OF THE LIABILITY OF THIS COMPANY OR ANY DINER SELLER FOR ANY AND ALL LOSSES, INSURIES OR DAMAGES RESULTING FROM THE USE OR HAND. LING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED, DR, AT THE ELECTION OF THIS COMPANY OR ANY OFFER SCILER, THE REPLACE-MENT OF SUCH QUANTITY, OR, IF NOT ACQUIRED BY PURCHASE, REPLACEMENT OF SUICH QUANTITY. IN NO CYENT SMALL THIS COMPANY OR ANY OTHER SELLER BÉ LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES.

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60 thre 57

\$7 Jun 64

Hazards to

Humans and Domestic Animals

Keep out of reach of children.

WARNING!

PEREBUIAL

WOODER BROOM AND 採ELS

CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY.

HARMFUL IF INHALED.

Do not get in eyes or breathe spray mist or get in or on clothing.

Wear goggles, face shield or safety glasses.

Wash thoroughly with soap and water after handling.

Remove contaminated clothing and wash before reuse.

FIRST AID: If IN EYES, hold eyelids open and flinh
with planty of water. Cet medical attention.

If INHALED, remove viction to break air, it out breathing give artificial respiration, preferably mouth-to-mouth, bet medical attention.

If SWALLOWED, stank promptly a large quantity of milk, egg whites, or gelater solution. If these are not available drink large quantities of water Get medical attention.

in case of an emergency knowing this product, Cult Collect, day or night (314) 694-4000.

MERCELL

Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

Physical or Chemical Hazards

Spray solutions of this product should be mixed, stored and applied using only stainless steel, aluminum, fiberglass, plastic or plastic-lined steel containers.

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted digarette or other ignition source.

ACTIVE INGREDIENT:

*Glyphosate, N-(phosphonomethyl)

glycine, in the form of its

41.0%

59.0% 100.0%

INERT INGREDIENTS:

*Contains 480 grams per litre or 4 pounds per U.S. gallon of the active ingredient, glyphosate, in the form of its isopropylamine salt. Equivalent to 356 grams per litre or 3 pounds per U.S. gallon of the acid, glyphosate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

Storage and Disposal

Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

See container label for STORAGE AND DISPOSAL instructions.

GENERAL INFORMATION

DO NOT APPLY THIS PRODUCT USING AERIAL SPRAY EQUIPMENT EXCEPT UNDER CONDITIONS AS SPECI-FIED WITHIN THIS LABEL.

This product, a water soluble figuid, mixes readily with water to be applied as a foliar spray for the control or destruction of most herbaceous plants. It may be applied through most standard industrial or field-type sprayers. after dilution and thorough mixing with water in accordance with label instructions.

This product moves through the plant from the point of foliage contact to and into the root system. Visible effects on most annual weeds occur within 2 to 4 days, but on most perennial weeds may not occur for 7 days or more. Extremely cool or cloudy weather following treatment may slow activity of this product and delay visual effects. of control. Visible effects are a gradual wilting and yellowing of the plant which advances to complete browning of aboveground growth and deterioration of underground plant parts.

Unless otherwise specified on this label, delay application until vegetation has emerged and reached the stages described for control of such vegetation under the "Weeds Controlled" section of this label. Unemerged plants arising from unattached underground rhizomes or root stocks of perennials will not be affected by the herbicide and will continue to grow. For this reason, best control of most perennial weeds is obtained when treatment is made at late growth stages approaching maturity.

Always use the higher rate of this product per acre within the recommended range when (1) weed growth is heavy or dense, or (2) weeds are growing in an undisturbed (noncultivated) area.

Do not treat weeds under poor growing conditions such as drought stress, disease or insect damage, as reduced weed control may result. Reduced results may also occur when treating weeds heavily covered with dust.

Reduced control may result when applications are made to annual or parennial weeds that have been mowed, grazed, or cut, and have not been allowed to regrow to the recommended stage for treatment.

Rainfall or irrigation occurring within 5 hours after application may reduce effectiveness. Heavy rainfall or irrigation within 2 hours after application may wash the chemical off the loftage and a repeat treatment may be required.

This product does not provide residual weed control, for subsequent residual weed control, follow a labelapproved herbicide program. Read and carefully observe

the cautionary statements and all other information appearing on the labels of all herbicides used.

Buyer and all users are responsible for all loss or damage in connection with the use or handling of mixtures of this product with herbicides or other materials that are not expressly recommended in this tabeling. Mixing this product with herbicides or other materials not recommended on this label may result in reduced performance.

For best results, soray coverage should be uniform and complete. Do not spray weed foliage to the point of runoff.

Keep people and pets off treated areas until spray solution has dried.

DOMESTIC ANIMALS: This product is considered to be relatively nontoxic to dogs and other domestic animals; however, ingestion of this product or large amounts of freshly sprayed vegetation may result in temporary gastrointestinal irritation (vomiting, diarrhea, colic, etc.). If such symptoms are observed, provide the animal with planty of fluids to prevent dehydration. Call a veterinarian if symptoms persist for more than 24 hours.

ATTENTION

AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS.

Do not allow the herbicide solution to mist, drip, drift, or splash onto desirable vegetation since minute quantities of this product can cause severe damage or destruction to the crop, plants, or other areas on which

treatment was not intended. The fibelihood of injury occurring from the use of this product is greatest when winds are gusty or in excess of 5 miles per hour or when ofter conditions, including lesser wind velocities, will allow spray drift to occur. When spraying, avoid combinations of gressure and nextle type that will result in agigater or fine particles (mist) which are likely to drift. AVOID APPLYING AT EXCESSIVE SPEED OR PRESSURE.

NOTE: Use of this graduat in any manner not consistent with this label may result in injury to persons, animals a crops, or other unintended consequences. Keep container placed to prevent spills and contamination.

MIXING, ADDITIVES AND APPLICATION INSTRUCTIONS

APPLY THESE SPRAY SOLUTIONS IN PROPERLY MAIN-JAINED AND CALIBRATED EQUIPMENT CAPABLE OF DELIVERING DESIRED WOLLINES, OD NOT APPLY WHEN WIND OR OTHER CONDITIONS FAVOR ORIFI, HAND GUN APPLICATIONS SHOULD BE PROPERLY DIRECTED TO AVOID SPRAYING DESIRABLE PLANTS, NOTE: REDUCED RESULTS MAY OCCUR IF WATER CONTRIBING SOIL IS USED, SUCH AS WATER FROM PONESS AND UNLINED OLICHES.

MIXING

This product mixes readily with water. Mix sgray solutions of this product as follows: Fill the mixing or spray tank with the required amount of water. Add the recom-

mended amount of this product (see the "Directions for the" and "Wests Composed" sections of this label) near the and of the lifting process and mo well. Remove hose from lank immediately after tilling to avoid sinhoning back into the carrier source. During mixing and application, learning of the spray solution may occur. To prerect or minimize from, and the use of mechanical agitators of the tank and, if needed, use an approved auxiform or defoaming agent.

TANK MIXTURES

Always predetermine the compatibility of labeled tank mixtures of this product with water carrier by teising small proportional quantities in advance.

Mix labeled tank measures of this product with water as follows.

- Place a 20 to 35 mesh screen to wetting basket over filling port.
- Through the screen, fill the sprayer tank one half first with water and start agreement.
- If a wetlable powder is used, make a slury with the water carrier, and add it SEDMLY through the screen into the lank. Continue agression.
- It a Nawable formulation is used, premis one part flowable with one part water, Add diluted mixture SLOWLY through the screen into the tank Continue addition.

13

- If an emulsifiable concentrate formulation is used, premix one part amulaifiable concentrate with two parts water. Add diluted mixture slowly through the screen into the tank. Continue agitation.
- Continue filling the sprayer tank with water and acid the required amount of this product near the end of the filling process.
- Where nonionic surfactant is recommended, add this to the spray tank before completing the filling process.
- 8. Add inciridual formulateors to the spray trial as follows: wereable powder, flowable, emulsifiedde concentrate, drift control additive, water soluble liquid followed by surfactant.

Maintain good agitation at all times until the contents of the lank are aprayed. If the apray minture is allowed to write, thoseagh agretion in required to reseasement the mixture before acreaying is returned.

Need by persiment on a near bostom of tank to minimize framms. Screen size in noute at fine strainers should be no liner than 50 mesh. Carefully select proper notate to award spraying a line mist, for best results with conventional ground applications, equipment, use first fan notaties.

Clean soroget and parts immediately after using this modest by thoroughly flushing with water.

ADDITIVES

SURFACTANTS

Nonionic surfactants which are labered for use with hetbicides may be used. Do not reduce rates of this product when adding surfactant. When adding additional surfactant, use 0.5 percent surfactant concentration? 2 quarts per 100 gallots of spray surfactant concentration surfactants which contain at least 10 percent active ingredient or a 1 percent surfactant concentration (4 quarts per 100 gallons of usuay solution) for those surfactants containing less than 10 percent active ingredient. Read and carefully observe surfactant cautionary statements and other information appearing on the surfactant tabet.

AMMONEUM SULFATE

The addition of 1 to 2 percent dry ammonium sulfate by weight or 8.5 to 17 pounds per 100 gallions of water may increase. The performance of this product, and this product plus 2.4-D. Barnel or residual herbicide tank minitures an annual and perential weeds. The improvemental performance may be apparent where environmental press. Is a concern, tow quality ammonium sulfate may contain material that will not readly discovered the could result in notife they plugging. To determine quality, perform a jar test by adding 35 cap of ammonium sulfate to 1 gallon of water and splate for 1 metate. If undiscoved sediment is observed, predissorie the ammonium sulfate in water and litter price to addition to the spray tank. If amminium sulfate in added directly to the spray tank, add slowly with agitation. Adding too

quickly may clog withat find. Ensure that ammonium sufficie is completely discoved in the spray tank before although the previous to sufficient. Thoroughly noise the spray system with clean water after use to reduce contains.

DOTE: The use of ammonium sulfate as an additive does not preclude the need for additional surfactant. Do not use too birde rates benefit than recommended in this label.

"Jamei is a trademan, al Secole, Inc.

COLDRANTS OR DYES

Agriculturally approved colorants or marking dyet may be added to this product. Colorants or dyes used in spray solution of this product may reduce performance, especially at lower rates or difutions. Use colorants or dyes according to the manufacturer's recommendations.

APPLICATION EQUIPMENT AND TECHNIQUES

Do not apply this product through any type of irrigation

This product may be applied with the following application equipment:

Agrial - Fixed Wing and Helicopter

Remoderati Spray

Companied Despect applicator (CDA)—Hand-field or bosoninputated applicators which produce a spray consisting of a nature range of diophol sizes.

Mand-Held and Migh-Valume Spray Equipment— Angreach and backpack sprayers, pump-up pressure sprayers, handgars, handwards, lances and other handheld spray equipment used to direct the suray onto weed foliage and vehicle-mounted high-volume savay equipment for spray-to-well applications.

Selection equipment — Recirculating sprayers, shielded sprayers and wiper applicators.

See the appropriate part of this section for specific rates of application and instructions.

AERIAL EQUIPMENT

tise the recommended rates of this herbicide in 3 to 15 gailous of water per acre unless otherwise specified on this label. See the "Weeds Controlled" section of this label for specific rates. Unless otherwise specified, do not exceed one quart per acre. Whend applications of this product may be made in annual cropping conventional tillage systems, labor and reduced tillage systems, pre-barrest, sinicultural sites, and right-of-way, Refer to the individual and area sections all this label are recommended witness and application rates.) FOR AERIAL APPLICATION IN CALIFORNIA, RETER TO THE FEDERAL SUPPLIMENTAL LABOL FOR AERIAL APPLICATION STATE FOR SPECIFIC INSTRUCTIONS, RESTRICTIONS AND REQUIREMENTS.

This product plus Dust tenk minimus may not be applied by air in California. Awain direct application to any body of water-

AVOID DRIFT...DO NOT APPLY DURING INVERSION CONCITIONS, WHEN WINDS ARE CUSTY, OR UNDER ANY DIMER CONDITION WHICH FAVORS DRIFT. L'ASÉE MAY CAUSE DAMAGE TO ANY VEGETATION CONTACT-ED TO WHICH TREATMENT IS NOT INTENDED. TO PREVENT INJURY TO ADJUCENT DESTRABLE VEGETATION, APPROPRIATE EMETER ZONES MUST BE MAINTAINED

Coasse sprays are less likely to drift; therefore, do not use mouthes or metale configurations, which dispense spray as time spray droplers. On mad angle retains forward into the airstream and do not into easil spray returns by increasing notable pressure.

Orlif control additions may be used. When a doll control addition is used, rend and carefully observe the Cautionary statements and all other information appealing on the addition tabel.

Emere uniform application—To avoid screaked, unexess or mentagend application, use appropriate marking devices.

Thoroughly wash aircraft, especially funding grain, after each day of spraying to remove residues of this product accumulated during spraying or from spile. PROLONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES MAY RESULT IN CREATINGS AND POSSIBLE FAILURE OF THE PART, LANDING GEAR ARE MUST SUSCEPTIBLE. The maintenance of an arguing crazing (paint) which meets automace specification Mile-18413 may prevent concern.

■ 980ADCAST EQUIPMENT

For control of soners or personnial needs listed on this tabel using broad cast registrated—Use the recommended rates of this product in 3 to 40 galaxies of water per acre as a broadcast stary unless otherwise specified on this label. See the "Weeds Controlled" section of this label for specific rates. As dentity of weeds raterayes, spray solume should be increased within the recommended range to ensure complete controlled. Carefully select proper moute to wood spraying a fine must for best results with ground application equipment, we filed fan notices. Check for even distribution of spray droplets.

CONTROLLED DROPLET APPLICATION (CDA)

The rate of tens product applied per acre by rebicke mounted CDA equipment must not be tess than the arrount remainmented in this label when applied by conventional broadcast equipment. For rebick-mounted CDA equipment, apply 3 to 15 gallons of water on acre.

for the control of labeled arrival words with hard-held CDN units, apply a 20 percent solution of this product at a flow rate of 2 fluid ounces per minute and a walking speed of 1.5 MPH (1 quart per acre). For the control of labeled paraneal weeds, apply a 20 to 40 percent solution of this gradual at 8 flow rate of 2 flors ounces per minute and a walking speed of 0.75 MPH (2 to 4 quarts new acre).

Controlled diseases application equipment produces a spray nation which is not easily shuble. Extreme care

must be exercised to avoid spray or drift contacting the foliage to any other green fissue of desirable vegetation, as damage of destruction may result.

■ HAND-HELD and HIGH-VOLUME EQUIPMENT

Use coarse sprays only.

Mix this product in clean water and apply to foliage of regulation to be controlled. For applications made on a spray-to-wet basis, spray coverage should be uniform and complete. Do not spray to the point of runoit.

For control of annual weeds tisted on this label, apply a 0.5 percent solution of this product plus nominals surfactant to weeds tess than 6 inches in height or renner longth. Apply prior to seedhead fermation in gress or bad formation in troadleaf weeds. Althur three or more days before tillage or moving.

For annual weeds over 6 inches tall, or when not using additional surfactual, or unless otherwise specified, use a 1 percent solution. For been results, use a 2 percent solution on harder-to-control perennishs, such as becomes approximately took field bindweed, hemp dogoune, miliweed and Canada thistik.

Less than complete coverage of weets may result from the use of spary equipment designed for motorized spot beatments. Where less then complete coverage of annual weeds occurs, use a S percent solution. Do not reduce recommended concentrations at this product when adding surfactant.

Prepare the desired volume of spray solution by mixing the amount of this product in water as shown in the following table:

Spray Solution

DESTREO	AMOUNT OF ROUNDMA										
VOLUME	ijģ	1%	15%	2%	12						
i gaiton	h m	14 m	źw	ZH ag	§15 வ						
25 gallons	t pt	自由	१५ हा	2 qt	5 of						
andisg 901	Ž gf	188 i	14 23	2 😝	5 gai						

2 tablespoons = 1 Rud ouece

for use in knapserá sprayers, si il ruggered that the proper amount of Dils product be mused with water in a target container. Filt sources with the mixed solution, for hand-held WIPER APPLICATORS, see the "Selective Equipment" section and for hand-held CONTROLLED DROPLET APPLICATORS, see the "Controlled Displet Application (COA)" section of the label.

SELECTIVE EQUIPMENT

This product may be applied through a reconculating spray system, a whichled application or a wiper application after diffution and thorough mixing with water to issed weeks growing in any noncrop site specified on this label and only when specifically recommended in cropping bystems.

A secirculating spray system directs the squay solution onto weeds growing above desirable regetation, while

2)

spray solution not intercepted by weeds is collected and returned to the spray tank for reuse.

A shielded applicator directs the herbicide solution onto weeds while shielding desirable vegetation from the herbicide.

A wiper applicator applies the herbicide solution onto weeds by rubbing the weed with an absorbent material containing the herbicide solution.

AVOID CONTACT WITH DESIRABLE VEGETATION.

Contact of the herbicide solution with the desirable regatation may result in damage or destruction. Applicators used above desired regetation should be adjusted so that the lowest spray stream or wiper contact point is at least two inches above the desirable regetation. Droplets, mist, foam, or splatter of the herbicide solution settling on desirable regetation may result in discoloration, stunting, or destruction.

Applications made above the crops should be made when the weeds are a minimum of 6 inches above the desirable vegetation. Better results may be obtained when more of the weed is exposed to the herbicide solution. Weeds not contacted by the herbicide solution will not be affected. This may occur in dense clumps, severe infestations, or when the height of the weeds varies so that not all weeds are contacted. In these instances, repeat treatment may be necessary.

See the "Weeds Controlled" section of this label for recommended stage of growth for specific weeds.

NOTE

- Maintain equipment in good operating condition.
 Avoid leakage or dripping onto desirable vegetation.
- Adjust height of applicator to insure adequate contact with weeds
- Keep nozzle tips and wiping surfaces clean.
- Keep spray patterns aligned into recovery chamber of the recirculating sprayer.
- Keep shields on shielded applicators adjusted to protect desirable regetation.
- Maintain recommended roller RPM on roller applicators while in use.
- Keep wiper material at proper degree of saturation with herbicide solution.
- DO NOT use wiper equipment when weeds are wet.
- DO NOI operate equipment at ground speeds greater than 5 mph. Weed control may be affected by speed of application equipment. As weed density increases, reduce equipment ground speed to ensure good coverage of weeds.
- Be aware that, on sloping ground, the herbicide solution may migrate, causing dripping on the lower end and drying on the upper end of a wiper applicator.
- Variation in equipment design may affect weed control. With wiper applicators, the wiping material and its orientation must allow delivery of sufficient quantities of the recommended herbicide solution directly to the weed.

- Case must be taken with all types of wipers to ensure that the absorberst material does not become oversaturated, causing the herbicide to drop on desirable regetation
- Mo only the amount of solution to be used during a une-day period, as reduced activity may result from each lettoner solutions. With all equipment, drain and clean sprayer and wiper parts immediately after using this product by thoroughly flushing with water.

RECIRCULATING SPRAYERS

Recirculating sprayer calibration is made on the basis of ground speed and delivery volume. I we procedures can be used to calibrate: (1) determine the discharge being delivered per minute. Onen operate at the designated ground speed, or (2) select the designated spound speed and then adjust the sprayer to deliver the recommended volume per minute (this may require notate changes). Use the appropriate table below.

Do not operate at name pressure above 20 PS!

Table 1. Use this table when calibrating box or row-type recirculating societies. But us row-type spayer calibration is based on the total discharge applicated per row. Use only straight stream or 15° far-type nordes.

*YOLUME PE	R MIN	የ ያነው	08 R3	ï
------------	-------	-------	-------	---

MPK	Fluid Conce
2	26 to 35
3	38 to 51
4	5) to 68
Ł,	54 to 85

*NOTE: Be certain the amount collected is for all soray streams treating one row.

Table 2. Use this table when catibrating broadcast type recinculating sprayers. Broadcast recirculating sprayer calibration is based on the dischauge collected per foundle from one noutle on a 20-inch spacing

VOLUME PER MINUTE PER NOLINE

M) H	Front Ounces
2	7 to 9
. 3	20 to 13
á	13 to 15
5	16 to 22

When applied as recommended under the conditions described to recuculating sprayers, this product will control the following weeds growing a minimum of 9 inches above desirable vegetation.

Perential Broadlest Weeds.—To SUPPRESS the following weeds, mix in a ratio of 4 quarts of this product in 20 gallons of water and apply as directed.

Desbase, bemo

Milley ped

Apocynum çannabinum - Asclepius syriaca

Personal Grasses and Annual Broadlest Weeds -- To contick the following weeds, mix in a ratio of 3 quarts of this product in 20 gallors of water and apply as directed;

Cockiebur

Figureto, reducat

Lanthium strumanium , Amaranthus reprofleras

lobranceas

Suaffeetu

Sorghum halebenie

Hafiasthus annuus

Annual Gresser -- To control the lollowing weeds, mix in a ratio of 2 quarts of this product in 20 pullbasist water and apply as discled:

Com

Similar care

žea mays

Sugara bicalo

SHELDED APPLICATORS

भिन्दा अन्तरिक्षं का (शाकताको स्थापन कार्यस्थानक वेटवानीको रिक phielded applicators, this product will compositioned weeds lived in the "Weeds Controlled" section of this izhel

Shelded applications which supply the harbicide solution en a tora based anold be celibrated on a bionacteu equivalent rate and volume basis. To determine these:

Band width क्ष हेम्प हेर् Herbicide

Herbicide

Row wadth

Smadrast RATE

Band RATE per acre

per acre in inches

Sand width

Breadcasi

Band ACTORE

in inches Row width in inches

VOLUME of ស់ខ្លាំងា DATE SELECT

រប់វេប្រាស់ bet atte

Use moules that provide unilarm coverage within the bested area. EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT WITH DESIGNABLE VEGETATION.

for least-like rates of apolitation and ensurations to conbill of various around and personnal weeds, see the Wends Controlled" section of this label.

MIPER APPLICATORS

Tiper applicates include either roller er wich derives mirat abfigabl wird ästentilige eine eine eine eine administrated this product directly ento the wood. Equip-स्वक्षे संस्कृत be designed, maintained, and operated to present the herbicide solution from contenting desirable. eightation. Operate this equipment at ground speeds no greater (New 5 exph. Performance may be improved by reducing speed in great of heavy weed infestations to ensure adequate wiper variotation. Better results may be obtained if two applications are made to opposite directions.

Do not add surfactant to the herbicide solution,

For Roller Application - Mix 1 gallon of this product in enough water to prepare 10 gallons of herbicide salution (10 percent solution), Apply this uduling to perennial weeds or annual broadleaf weeds histed in this "Wiper Applicators" section.

Mix I gallon of this product in enough water to provide 20 gaillant of berbicide solution (5 percent solution). Apply this solution to annual grasses listed in this "More Applicators" section.

Ruller speed should be maintained at 40 to 60 RPM.

for, Wick or Wiper Application ~ Mix 1 gation of this product in 2 gallors of water to propers a 33 percent solution. Apply this salution to week's histori in this "Wiper Applicators" section.

In severe intestations, reduce equipment ground sport to ensure that adequate amounts of this product me wiped on the weeds. A second treatment in the appealite direction may be beneficial.

Do not permit iserbicide solution to contact desirable vegetation

When applied as recommended under the conditions sescribed for "Wiper Applicators", this product CONTROLS the following weeds:

ANNUAL GRASSES

Care

Кре, соправо

Zea mars

Secule cereaie

Panicyn, Teled Panicum (exasum Shaffercane Sarghum bicolor

ANNUAL BROADLEAVES

Six Mepod

Slader, brisily

Carrie obtosifolia

Aceath-sperment

Spaniahamolos

hispidam

Dideas tripionals

When applied as recommended under the conditions described for "Miper Applicators", this product

AMNUAL BROADLEAVES

SUPPRESSES the following wacds:

Beggareed, Florida

Ragweed, giant

Description **∮37/hr34**4322

Ambionia tribico

Dogtenact

Sup/foreer Helianthus annuus

Eupstanium

Balle must

Capillillarium

Cardinus nutaris

Pigweed, redroot

Amatasiftys

Veloties!

repolleres

Abutilon theophiesti

இழுக்க€, வளவை inibassi artemiyildiz

PERENNIAL GRASSES

विशासाम्य क्षेत्र <u>स्थ</u>ान

Senting to

Сулодоп dacaylon

Spercholas penetii

Guineagress

Facing Patro

Panicum marimum

Pasosiom umilisi

व्यापुर्वकारीय है

Saghua balapense

PERENNIAL BROADLEAVES

Dogwane, demp Appropriam cannabicum Nightshade, phedest Salprom einengnühlium

Pristle, Carada

Ascetepias syriaca

WEEDS CONTROLLED

This herbicide controls many annual and perennial grasses and broadleaf weeds.

ANNUAL WEEDS

- · Apply to actively growing grass and broadlest weeds.
- Allow as least 3 days after treatment balane tillage.
- For maximum agronomic benefit, apply when woods are 6 inches or less in height.
- To present seed production, applications should be made point to seedhead formation.
- This product does not provide residual control; therehare, delay application until maximum world emergence. Repeat untimento may be represent to control false germinating weeds.

LOW-YOLUME BROADCAST APPLICATION (LOW-RATE TECHNOLOGY)

When applied as directed pulser the conditions observined, this product will control the weeds listed below when:

- Water earrier volumes of 3 to 10 gailtos per acre for ground applications and 3 to 5 gailtoss per acre for serial applications are recommended. (See the "Aeriat Application" section of this label for approved sizes.)
- 7. A nonionic surfactant is added at 0.5 to 1 percent by tissal spray volume, the 0.5 percent surfactant conceptration when using surfactants which contain at least 70 percent active ingredient or a 1 percent surfactant concentration for those surfactants containing less than 70 percent active ingredient.

ROTE

- The addition of 2 percent of amendous sulfate to weight or 17 pounds per (OD gallons of weter may increase the performance of this product on annual weeds. The improvement in destormance may be apparent where environmental stress is a concern. Refer to the "Missing, Additives and Application Instructions" section of this label.
- Do not task-mix with soil residual burishedes when using these tates unless otherwise specified.
- For weeds that have been momes, grated, or cut allow regionsh to occur prior to treatment.
- Refer to the "Tank Mixtures" portion of this section for control of additional proadlest meets

WEED SPECIES	MAXIMUM HEIGHT/ LENGTH	PER PER ACRE** PLUID OURCESS
Fortel Selaria spp.	17."	B ót.
Barngardgræss Echinochlea crus-gæli	6° 604° 456°	12 oz. (6 oz. ¹) 24 oz. ¹)
Bluegrad, aroual Pot appea		
Grunnes (sense) Brownes (serve)		
■estarê, bîbe Chorispora tenella		1
Mustara, tener Descursions pioners		}
Mastard, tamble Signalariem all isolanda		
Magazid, wild Singgard, wild	1	
Spury, ombrella Holosteum umbellatore		
Barley Hardesto vulgate	12"	

Pyn Secule cereale	distribution of the second	
Sandbar, field Cenchus spp.	***************************************	
Shattercane Sorghum bicolor		
Stindgress Eragiostis cilianensis	Herte derte mayo	
Phen Tribicom aestirum	18*	
Marningglory Ipomoea spp.	***************************************	15 oz
Sickleped Castia objusitoha	***************************************	
Allunguess, bulborn Pon bylbern	5,"	
Cheal Bromus secalinus		
Chickened, common Stellaria media		ĺ
Chick wood, measures Ceresitum rytgetum		
देश कर्म		
Beatures, jointed Anglisps cylindrica	- Andrews	

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TATION OF THE PARTY OF THE PART

WEED SPECIES	MAXIMUM HEIGHT/ LERGTH	RATE PER ACRE** (FLUID OUNCES)
Groundsel, common Senecio valgaria	6"	16 az.
Horseweed/Marestail Conyza canadensis		
Lambsquarters, common Chenopodium album		
Pennyuress, field Fanweed Thlaspi arvense		}
Rocket, London Sisymbrium irio		
Ryegrass, Italian Lolium multillorum	} .	
Shepherdspurse Capsella bursa-pastoris		
Spurge, annual Euphorbia spp.		_
Buttercup Ranunculus spp.	12"	
Cocklebur Xanthium strumarium		Ì

Crabgrass Digitaria sop.		
Dwarfdandelion Krigia cespitosa		I
Falseflax, smallseed Camelina microcarpa		!
Fostail, Carolina Alopecurus carolinianus		
Johnsongrass, seedling Sorghum halepense		
Oxts. wild Avena latua	;	
Panicum, fall Panicum dichotomillorum	,	
Panicum, Texas Panicum texanum		
Pigweed, redroot Amaranthus retroflexus		
Pigweed, smooth Amaranthus hybridus		
Witchgrass Panicum capillare		
Sicklepod Cassia obtusifolia	3 to 4 "	24 02
Signalgrass, broadleaf Brachiaria platyphylla	4″	

MEED SPECIES	MAXIMUM Height/ Length	RATE PER ACRE FLUID OUNCES
Horseweed/Manariail Compa cambinos Lambaquariem, common Chemopodium album Spunge, annual Euphorbio sop.	7 to 12*	24 or
Rice, red Dryza saiira Sezweed Sida spinosa	***	37 ₽4.
Sprengletop Leptochica spp.	60	
Geranium, Carolina Geranium carolinianum Geosegrass Eleusine indica Printruse, cutteaf evening Genotitera laciniate Pustey, Florida Richardy, scabra	12*	

Sinklepod Carola establidia] 5 to 12*	***********
Spanijaneed — Bidens biginnata	opposite the state of the state	
Filme Endium spa	12*	48 92.
Sprangielop Leolochica sop.		

Use these rates to control becorningers, in Alabama. Alkanse, Mississippi, Missouri, Louisiana and Texas for preplant treatments.

*For control in politil systems, use 18 fluid system per

** For those rates less than 32 fluid ounces per acre, this product at rates up to 32 fluid ounces per acre may be used where heavy weed densities exist.

TANK MIXTURES

- asynab euig ®quenon Thataatruz Sindikon euig
- ROUNDUP plus 2,4-0 plus 404/Onionic Surfactant

CO NOT APPLY BUNYEL OR 2.4-D TANK MIXTURES BY AIR IN CALIFORNIA

These task minimum are recommended for one in lesson and reduced liftage areasonly. Failure and directions as

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A STATE OF THE STA

given in the "Low-Volume Broodcap Application" withon.

This product plus Bornel or 2.4-D will conduct the ansual grasses and broadlest weeds previously fisted for this product alone at the indicated heights (except 8 flaid guarges per acre applications), plus the following broadless wreads. For those weeds previously listed at 8 fluid geners of this product alone per acre, use 12 fluid nunces in these task mixtures.

MOTE, Refer to the specific product labels for crop. incitation restrictions and cautionary statements of all products used in tank mistrices. Some crop injury may occur if Bannel is applied within 45 days of planting. The addition of Barnel in a minime with this product may provide stept-term residual control of selected

Apply 12 to 16 ffuld current of this product plus 0.25 fb. ali of Barrel or 0.5 pound ali of 2.4-0, phys 0.5 to 1 percert nonimier har lathait by total south volume per stall to control dema propulations of the following annual breaklest words when her than the height indicated:

Cocklebur (12") Kanibium steumusum

Mediation 6" /волем ма

Rochia* (6 ")

Pigmed, reduct (12")

Kochia scoparia

हैताकुरक्रातीच्या त्यावरीसाध्य Pigneed, smedh (12*)

Lambsquarters (127) Chenopadium album

Amazanītus āydnīdus

Lattuce, prichty (5")

Thistle, Russian (12*)

Eactuca serriola

Sahuda kafi

Marchail/Horsen sect (6")

Conyes canadensis

*Controlled with Baseel tank mixture only.

Apply 18 Build curactes of this product plus 0.5 pound a.i. of 2.4-0, plas 0.5 to 1 percent admonic surfactant by idal spits educate per sore to council the idilerang stantal broughest weres when less than 6 inches in denie.

विधान्तरार्वं, व्यक्तात्का

Smartmand, Papirophysia Ambresia artemicialola Folygonum penyhanacum

Rigerard, giant Ampresa tribata **Vehetlu** Altability (hanolicestic

HIGH-VOLUME BROADCAST APPLICATIONS

When applied as unexted under the conditions described, this propose will control the words letter below when water carrier with met are 10 to 40 gallors ber seie jot Signud applications.

Apply 1 to 1.5 quarts of this product per acre plus 6.5 to il percent nonionic surlaciant by total soray volume. Use I quan per acre if weeks are less than it without tall and 1.5 quarts per acre if weeds are over 5 inches tall. में भक्तरेंड विकार केवरण moved, द्वारक्षते, का देखें, सेविन स्वीम ensite time in the kinety to uxtonuesty asked but to treatment. These rates will also provide control of weeken list ed in the "Low-Volume Broadcast Application" **SECTION**

WEED SPECIES

sectio: This p 2:83,94 prodi DAME

eat.

nevig

Balsamepoie* Momordica charantia Bassia, firehook

Bessia hyssopifolia Brome Вютия грд

2007 Fiddleneck gy fi Amsiockia spp. NG Plazicai Freatiane

Сопуса больнегова Ուտևյու Elignon son. Karkiy

Access scenarios Lettince, prickly Cacca Morrison

Paritum Рависили мор.

Regiment, committee Ambrosia artemiscibilia Ragmend, giant

Ambrosia Milida Smartmood, Pennsylvania Palygoniim. pensylvanicum

Sowthistie, annual Sonehus deraceus

Տորիդան Holianthus encuus Distile, Aussian

Satisti Anii Velvelleaf

Adutifaci (deophrast) "Apply with hand-betal equipment only.

PERENNIAL WEEDS

Apply this product as follows to control or desirey most perennial meeds:

NOTE: If weeds have been moved or tilled, do not treat until plants have resumed active growth and have reached the recommended stages

Repeal treatments may be necessary to control regenerating from underground parts or seed. Repeat treatments must be made prior to crop emergence.

The addition of 1 to 2 percent dry ammonium sulfate by weight at 8.5 to 17 pounds per 100 gallions of water may increase the performance of this product on perennial weeds. The improvement in performance may be apparthat where environmental stress is a concern. Refer to the "Missing, Additives and Application Instructions" section

When applied as recommended under the conditions described this product Will CONTROL the following PERFUNIAL WEEDS:

A);zita

Medicago imina Africators and

Alternagibera ohábzeréides

Artichelle, Italicatem Helizathus tubecesus

Bahiagress Pasoalum natatum

Bentgrass Agrestis spp. Bermudagrass

Cynoden decrylen Bermadagræst, water

hooler ext Pasoaium distichum Kilkuprugtæs Pendu**s**Path

*etanders a*rum ¥ndam#eĕ

Dentaurea repent Lastera

faoiano camera Milj weed

ASCIPALIS SQD. Mubh, wirestem Mgatenbergia trandoosa

Mulinia Common Verbascum fbapsas

Napiergrass

Репписыт рисцигия

Birdwood field Control his amendia

Bluegram, Kentucky POR SDP.

Bineweed, Years Helianthus ciliaris

Brackenfern शिक्षांद्रीयमा २००मीकामा

है*।*ध्या स्ट्रास्ट्र, प्रत्यक्षी Browners exercis

Burage, wadiplest Francesia tomentota

Canangiass, sted Phataris arundinacea

Cattail Турћа мор.

Clover, red Trilotium precensa

Clover, white Trilation repeat

Cognigrans अव्यक्तिक स्वत्यक्ति

(मिनिहास्य Panpalum silatatum

Tarau acum officinale

Mightshade, silveries? Solanum elacagnitohum

Nutsedge, parphe, pellew Opposits satisfied as Cyperus esculentus

ರೀಗಿಸುವುದಾ Datifis giomerate

Pampay Cortadoria jubata

rangnez Brachiaria mutica

Phragmiter* Phragmites sep.

Quackgrass

Авторунся герели Redvine*

Biundichia evota Reed giant

ಮೀಚಾರು ದರ್ಣಾ Ryegrass, percanial

Loñum perenne S*m*g/tweed, swamp Polygonum coccineum

Spurge, healt* Euphorbia esola

Sweet polate, कोंडे[‡] /aomora passierat#

Deach, curty Runtex cospes

Doghase, hemp Аросупет смлявільт

fescen Герига гро.

festee u# feuteca arengmaces

र्वहां क्षित्र हुए स्टब्स् Равскот талітет

Morsene trie Solanum cardinense

Homeradish ALTHOUSEUR FRISINGATIO

រីថា នេះកា<u>ខា</u>គន Scagbijm камеревие

*Partial Control this gradual is not regimered in California for use on waige beimedagiass,

See "Directions for Use" and "Missing, Additives and Application Instructions" sections of the tabel for Ubeled uses and specific apphraison extractions

Altalia - Apply 1 quart of this product per acceptes 0.5 to 1 percent nonmone surfactant by total toway whence in 3 to 10 gailons of water per acre. Make application alter the fast hay curring in the laff. Allow alights to region lo a height of 6 to 8 inches or more pres to treatment.

Desile, Creeds Cursium amensa

> Timothy Phileum pratense ice pedagrasa*

Раписит гереяз frumpettreepar*

Compais repicans ¥कस्तुर(स्टा

Paradus แกกเล भिन्नाक ह्या अन्यात ह Agrappos uneitas



Applications should be between with deep tillage at least 2 days after beatment, but before soil freezo-up.

Migrature et — Apply 4 quarts of this product per acre or apply a 1% percent solution with hand-held equipment to provide partial control. Apply when most of the plants are in bloom. Repeat applications will be required to maintain such control.

Bantgrass — For suppression in grass seed production areas, for ground applications only, apply 1.5 quarts of this product ofus 0.5 to 1 percent nationic surfactual by total spray volume in 10 to 20 gallons of water per acre. Ensure entire crown area has resumed growth prist to a fall application. Bentgrass should be actively growing and have at least 3 inches of growth. Tituge given to treatment should be avoided. Titlage 7 to 10 days after application is recommended for best results. Failure to use titlage after treatment may result in unacceptable content.

Bermudagness—for content apply 5 quarts of this predect our our eard, for perfect control, apply 3 quarts per acre. I read when bermudagness is actively growing and seechcools are oursent. Red extremit may be necessary to regimtain control. Allow I or impre days after application belong tillage.

Bermudagrass, water (brodgrass)—Apply 1.5 quarts of this product plus 0.5 to 1 percent nonionic surfactant by total squay volume in 5 to 10 gallons of water per acre. Apply when write beimudagrass is actively growing and

12 to 18 inches in length. Allow 7 or more days before tilling, Sushing or flooding the field.

Fall applications only—Apply I quart of this product plus 0.5 to 1 percent noncourt surfactant by local young volume in 5 to 10 gallors of water per acre. Fallow fields should be tilled onto to application. Apply proc as the solution water between days state is actively growing and 12 to 18 inches in tength, Allow I or move days before tillage.

Bindweed, field — For control, apply 4 to 5 quarts of the product per acre were of the Mississippi River and 3 to 4 quarts east of the Mississippi River. Apply when the weeds are actively proving and are at an beyond full bloom. Do not freat when weed is under drought stress as good soft mousture in the making for active growth, for heal wealths, apply in late summer or latif. Fall treatments must be applied before a billing front. After 1 or more days after application before tillage.

Also for control apply 2 quarts of this product plus 0 5 pound as at Baned or 10 in 20 gallors of water per acre. At these cales, apply thing ground application only.

The following tank maxtures with 2.4-0 may be applied using serial application equipment (except in California) in fallow and reduced tillage systems only.

For suppression on singated agricultural land apph, 1 to 2 quarts of this product plas 1 pound a.r. of 2,6 0 in 18 to 20 gailons of water per acre with ground equipment only. Applications should be made following namest or on fall fallow ground when the bindweed is acreely grow-

ing and the majority of runners are 12 inches or more in length. The use of at least one infigation will promote acline bindweed growth.

For suppression, apply 16 fluid nunces of this product plus 0.5 pound a.i. of 2.4-0 plus 0.5 to 1 percent non-inaic surfactant by total spray volume in 3 to 10 gallons of water per acre for ground applications and 3 to 5 gallons of water per acre for aerial applications. Applications should be delayed until maximum supergence has occurred and when vines are between 6 to 18 inches to length.

In California only, apply 1 to 5 quarts of this product per acre. Actual rate needed for suppression or control will vary within this range depending on local conditions. Also, to more soppilic use recommendations to California refer to the following paragraph:

For suppression an integreed land where consolitiliste is performed, apply I quart of this product plus 0.5 to I percent notionic sector land by total spray volume in 3 to 10 gallors of water per some Apply to achieve growing bindwared that has reached a tength of 12 inches or greater. Allow maximum wend examplemes and rounced growth. Do not used when wend is order drought laters as good soil moisture it necessary for active growth. Allow 3 or more days after application before tilbage.

3 4

Bivegrass, Kentucky / Bromegrass, smooth / Orchardgrass—Apply 2 quarts of this product in 10 to 40 gallons of water per acre when the grasses are actively growing and most plants have reached boot-to-early seedhead stage of development. For partial control in pasture or hay crop renovation, apply 1 to 15 quarts of this product plus 0.5 to 1 percent nonionic surfactant by might spray rolume in 3 to 10 gallons of water per acre. Apply to actively growing plants when most have reached 4 to 12 inches in height. Allow 7 or more days after applicantion before tillage.

Orchardgrass (such going to no-lift com)—Apply 1 to 1,5 coarts of this product per acre plot 0,5 to 1 percent non-some participants by statal spray reforme in 3 to 10 gallons of water per acre. Apply to pucher dynast that is a minimum of 12 secties tall for spring applications and 6 norther tall for lift appearsions. Allow at trast three days following applications before planning. A sequential application of 1,75 to 4.5 quarts of Lanary herocide, by equivalent, will be necessary for application results. Larger should be applied within 3 to 10 days following applied story to be equivalent to prevent annual weed growth.

Largat et not pegestared for use in California.

**Ezerati is a cayataras trystimação di Misasanto Company.

Blummed, Texas—Apply 4 to 5 quarts of this product per acre west of the Mississippi River and 3 to 4 quarts per acre east of the Mississippi River. Apply when weed is actively growing and is at or beyond full bloom. On not treat when weed is under drought stress as good soil moisture is necessary for acrive growth. New leaf development indicates actine growth for best results, apply in late turnates at latt. Fall treatments must be applied before a litting forst follow 7 or more days after applitation before fillage.

Brackeniem -- Apply 3 to 4 quarts of this product per extensia broadcast spray at as a 1 to 1% percent solution with hand-held equipment. Apply to fully expanded french which are at least 18 inches long.

Beimage, worthfeat — For control, apply 2 quarts of this product plus 1 pint of Barrel per acre. For partial control, apply 1 quart of this product plus 1 pint of Barrel per acre. And 0.5 to 1 percent nonionic surfactant by total paray when and apply 3 to 20 gallons of water per acre. Apply when plants are producing new active growth which has been nitiated by moisture to at least 2 weeks and when plants are at or beyond thowering.

Conarrgrass, med/Timothy/Wheatgrass, mestern — Apply 2 to 3 quarts of this product per acre. For best results, apply to actively growing plants when most have reached the boot-to-head stage of growth. Allow 7 or more days after application before tillage.

Cogongrazz—Apply 3 to 5 quarts of this product plus 0.5 to 1 percent nonionic surfactant in 10 to 40 gallons of water per acre. Apply when Cogongrass is at least 18 unches tall and artirely growing in late summer in fell. Allow 7 or more days after application before things or making. Due to uneven stages of growth and the demandance of regestation purventing good spray coverage, reposit treatments may be notezoen to making in control.

Clandericon/Dock, curry—Apply 3 to 5 quarts of this product per acre when pleasts are actively appring and more have reached the early bud stage of growth. Allow I or more days after application before tillage.

Also for control, apply 16 Huld nunces of this product plus NS pound a.i. 2.4-0 plus 0.5 to 3 percent nonionic australiant by total spray millime in 3 to 10 gallons of water per acre.

Deglams, Steep - Apply 4 quarts of this product per acre. Apply when actively growing and when most weeds have reached the late bud to flower slage of growth following crea harrest or morning, allow wends to regrow to a mature stage prior to treatment, for best reachts, apply in late summer or fall. Allow I or more slags alter application before tittage.

for suppression, apply 16 fluid ounces of this product plus 0.5 goods at, of 2.4-0 plus 0.5 to 1 percent consistence surfactant by total spart volume in 3 to 10 gelions of water per acre for ground applications and 3 to 5 gallions of water per acre for agrical applications. Delay applications until marinum energence of deglace has occurred

Fescoe, tall — Apopt 3 quarts of this product in 10 to 40 gallons of water per acre to actually proving plants when most flave resched boot-to-early sendherd stage of development.

fall applications only—Apply 1 quart of this product plus 9.5 to 1 percent nonlooks surfactant by total spray volume in 3 to 10 galloos of water per acre. Apply to

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fescure in the full when actively growing and plants have 6 to 12 inches of new growth. Allow 7 or more days after application before tiliage. A sequential application of 1 pint per acre of this product plus nonionic surfacture with improve long-term control and control seculings germinating after fall heatments or the following spring.

Guineagenss—Apply 3 quarts of this practical per serie or use a 1 perpent solution with hand-body equipment. Apply to actively growing guineagens, when most has reached at team the Fleat Mage of growth. Emure thorough coverage when using hand-hald equipment. Allow 7 or more days after application before tillage.

Inhosongrass/ Ayegrass, perennial—Apply 1 to 3 quarts of this product per acre, in annual capping systems apply 1 to 2 quarts of this product per acre, Apply 1 quant of this product per acre, Apply 1 quant this product in 10 gallons of water paracre. Use 2 quarts of this product when applying 10 to 40 gallons of water paracre. In open corp or areas when annual fillage (no-fill) is not performed, apply 2 to 3 quarts of this product in 10 to 40 gallons of water per acre. For hest results, apply to actively graving plants when most have reached the boot-to-head stage of growth or in the fait prior to frost. Allow 7 or more days after application believe stitage. Do not tank-mix with residual herbicides when using the 1 quart per acre rate.

For borndown of Johnsteams, apply 1 pint per acre plus 0.5 to 1 percent namional surfactant in 3 to 10 gallons of water per acre before the plants reach a height of 12

belore tillage.

Spot Treatment (partial control to suppression) – Apply a 1 cercent solution of this product plus 0.5 to 1 percent nonloaic surfactant by lotal spray volume when johnsongrass is 12 to 18 inches in height. Coverage should be uniform and complete.

Mikurjugrass — Apply 7 to 3 quarts of this product per acre. Spray when most hikurjugrass is at least 8 inches in height (3 to 4-leaf stage of growth) and according yowing. Allow 3 or more days after application before tiltage.

Anapaced/Horgeradish ~ Apply 4 quarts of this conduct per acre. Apply when actually growing and when most weeds have reached the late bud to flower stage of growth, following crop barrest or moving, allow vegos to regrow to a mature stage prior to treatment, for best results, apply in late summer or fall. Allow 2 or more days after application before tiflage.

Lamana — Apply this product as a { to } N percent seletion using hand-held equipment only. Apply to actively growing lantans at or beyond the bloom stage of growth. Use the higher application rate for plants that have reached the woody stage of growth, Allow I or more days after application before tilisge.

Miliweed, paraman—Aophy 3 quants of this product per acre. Apply when actnessy growing and mass of the milkweed has reached the lete bud to flower stage of growth. Following small grain narvest or making, allow milkweed to regrow to a mature stage prior to treatment, Allow 2 or make days after application before tillage.

Muchly, wirestern.—Apply is to 2 quants of this product per scree. Use 1 quant of this product plus 0.5 to 1 percent nonlocal metactant by total spray volume in 3 to 10 gallers of water per acre or in pasture, sod, or mancrop areas. Spray when the wirestern muchly is 8 isother or more in height and actively proving. Do not till between harvest and fall applications or in the fall or spring prior to spring applications or in the fall or spring prior to spring applications. This product will not provide residual control of wirestern muchly from seeds which germinate after application of this product. De not took mit with residual high bickless when using the 1 quant one acre rate.

Nightshade, phyedral—For control, apply 2 quarts of this product plus 0.5 to 1 percent nonlonic sufficient by resal spray volume in 3 to 10 goldens of water per acre. Applications should be made when at least 60 percent of the plants have bernes. Full made only in the applied before a killing frost. Allow 7 gr more days after application before tiltage. Do not beat when weed is under drought stress as good soil mainture is neclessary for active growth.

Notsedge purple, yellow — Apply 3 quarts of this product per acre as a broadcast spray, or apply a 2 percent adirtion from hand-held equipment to control existing autsedge plants and immature nuflets attached to treated plants freat when grants are in linear or when new notifelt can be found at this one tips. Nutlight which

here not germinated will not be controlled and may germinate following treatment, Repeat treatments with be required for lung-term control of ungerminated tubers.

Sequential applications of 1 to 2 quarts of this product plus 0.5 to 1 percent reprients surfactant by total solely refurme in 3 to 10 gallons of water per acre will provide control. Make applications when a majority of the plants are in the 3 to 5-feat stage (less than 6 inches tally. Repeat this application, as necessary, when newly energing plants reach the 3 to 5-feat stage. Subsequent applications will be necessary for long-ners counted.

for suppression to perial control of existing plants, abody 1 pint to 2 quarts of this product per acre, plus 0.5 to 1 percent romains surfaction in 3 to 40 gallors of when per acre. It all when plants have 1 to 5 leaves and arest are less than 6 enches tall, Repeat treatments will be required to control subsequent emerging plants or regrowth of existing plants. Wait 7 days after treatment before titlage or moving.

Pampas — Apply this product as a 1% to 2 percent solution using hand-hold equipment. Apply to plants that are actively growing at or percent the boot stage of growth. Therough coverage is necessary for best control.

Phragmites—For partial control of phragmites in Florida and the countries of other states condering the Gulf of Mexico, apoly 5 quarts per acre as a broadcast spray or apply a 2 percent solution from hand-held equipment. In either areas of the U.S., apply 3 quarts per acre as a broadcast spray or apply a 1 percent solution from hand-

held equipment for partial control for best results, treat dwing late summer or fall months or when plants, are actively growing and in full bloom. Treatment before or affect this stage may lead to reduced control. Due to the dense nature of the vegetation, which may prevent good spray coverage or uneven stages of growth, repeat beatments may be necessary to maintain control. Visual control symptoms will be slow to develop.

Quackgrass—In Ahmuel Cropping Systems, or in Passure and Sods Followed by Deep Fillage: Apply 1 to 2 quarts of this product per acre. For the one quart rate, apply 0.5 to 1 percent contents such acre. For the 2 quart rate, apply in 10 to 40 gallons of waits per acre. For the 2 quart rate, apply in 10 to 40 gallons of waits ner acre. Do not hash mix with residual habicides when esting the 1 quart case. Spray when quackgrass is 6 to 8 inches in height and orthodyganing. On not fill behaves harvest and fall applications or in fall or sening prior to spring application. Allow 3 on moust days after application before tillage. In pastones or social for better enables are a modificing plant.

Quachgress—Pasters or Sect or Other Montrop Areas Where Deep Falage is first Plenned Following Application. Apply 7 to 3 quarts in 10 to 40 gallons of water per acre. Sonay when the quachgrass is greater than 8 inches tall and actively growing. On not till between harvest and fall application or in tall or spring prior to spring application. Allow 3 or more days after application before tillage.

Redrice—For suppression, apply 24 fluid conces of this product per acre at each of two applications 7 to 14 days appart or a single application of 2 quarts per acre. Apply

tecommended rates in 5 to 10 gations of water per acreplus 0.5 to 1 percent nonionic surfactant by total schame. Apply to actively growing plants in tage September or earty October, which are at least 18 inches tall and have been growing 45 to 60 days since the tast tillage operation. Make applications at least one week testure a killing frost.

Reed, giant – for control of giars reed, apply a 2 percent solution of this product when plants are actively growing. Best results are obtained when acquirations are made in late numbers to tall.

Smartured, course—Apply 3 in 5 events of this product per acre when pleats are actively growing and most have reached the early bud stage of growth, Allow 7 or more days after application before things.

Also hat control, apply 16 third nunces of this product plot 0.5 powed active ingredient of 2,4-0 plus 0.5 to 1 percent nonionic surfactant by field volume in 3 to 10 galans of water per sure in the late summer or fail. Apply when plants are actively growing and most have reached the early bud stage of growth. Allow 7 or more days after application before titlegs.

Spurge, leafy — For suppression, apply 16 fluid owners of this product plus 0.5 pound active ingredient 2.4-0 plus 0.5 to 1 percent nominally surfactant by total spirary volume in 3 to 10 gallons of water per and in the late summer or fall. Apply when plants are actively growing. If mowing has occurred prior to 0 estiment, apply when most of the plants are 17 inches tall. Allow 7 or mane days after application before tillage.

Sweet Potato, wild-- Apply this product as a 2 percent solution using hand-held equipment. Apply to actively growing weeds that are at or beyond the bloom stage of growth. Repeat applications will be required. Allow the alant to reach the recognition and stage of growth balant retreatment. Allow I or more days before tillage.

Thistie, Canada - Apply 2 to 3 quarts of this product per acre. Apply to actively growing thisties when mest use at or beyond the bod stage of growth. After harvest, maxing or tilizge is the late surraner or tall, allow at least 4 weeks for indication of active growth and escate development prior to the application of this product. Fall treatments must be applied delete a follow from Alter Jos nime days affer application believe foliage.

for suppression of Consta Mistle, apply I quart por some of this product, as a piet of this product plus O.S prograf all 7.40 per some plus 0.5 to 1 percent regioned sur-Section: by total supray reduces in 3 to 10 godiens of water per acre in the late softmer or talk after buryest, mowing a fitting. About weathe regrowth to a minimum of 6 attited in diameter before heating. Applications can be made as long as icases are shift green and plants are actively proving at the time of application. Allow 3 or none days affer application before tillage.

forgadograss -- Apply 4 to 5 quarts of this product per acts to gravide partial control of torpedograss. Apply to actively growing temperagrass when must plants are at or depend the seedhead stage of growth, Repeat applications will be required to maintain consent. Fall treat-

ments must be applied before \$652. Allow I or more days after application before filtage.

Inimpeteresper—For control, apply 2 quarts of this product per acre in 5 to 10 gailons of water see start. As ply to actively growing plants in tale September or October, which are at least 18 maines tall and have terms growing 45 to 60 days since the last pillage appearance. Make applications at least 1 week before a killing feat.

Other percentabilisted on this label—Apply I to 2 years of this product per acre. Apply when activity growing and most have reached early head or early bud stage of powith Alber I or more days after application before Mage.

WOODY BRUSH AND TREES

When applied as recommended under the comprisons described, this product CONTROLS is PARTIALLY CON-TROAS the following woody brush, plants and trees:

Alder

Mapie

Alter Co

Ked**

lah *

Atel rubrum

Feguines son

Sugar

Aspen, awaling

Acet Sacciarum

Popular tremulaides

Vine"

Bearmot (Bearclover)

*Аса сксияци*т

Chamachatia lolidesa

Mankey (Name)

Bitch

Microbus guitatus

Betula spp.

Blackberg Подис врр.

टुक्काम्:

French

Cytisus menspessulanus

Scotch Cytisus scoparius

Buchwheat, California* Епоромет (ассемация

Castors

Rhamnus purshiana

Ըննչվոր≑ Acetia preggi

Centedbos* Geanothus sop.

Charge 1 Ademostome terciculatum

Chp_T #dle:

Process emerginata

Slack Pronus sergina Pin

Promus pensylvanica Coyole brush

Baccharis consanguinea

Oak: Black*

> Quercas relogiae Northwa Pin Question palestins

Post

Quercus stellara

Red

Question replica Southern Resi Concus lateata

Whate*

Quercus alba £សាលាក្រហ្គ÷ Diagraphics soil

Posten Im Rhus radicans

Paisos Cak Ritus taxicodendron

Poplar*, yellow Lifiodendron tulipitera

Raspheny Rubus spp. Road, multificta

Rosa multidiora Russian pitye"""

Diseagous angestifetia

Creeper, Virginiz* Parthenociosus quinquelolia. Salvià mellulara

Dewberry Rudus Traighs

Ейызен Sambucus (cg.

Lim* Beers son

Lacetypius Glargem

Eucalippius glotelus Newsta*

Hapigaspaus squamorus

Mathen Craterges spa.

Larylus 100.

Hanguille taarce a spp.

Kudiru

Persana lobata Locust, black*

Repinia рагодожасіа

Madrone Artiulus mentiesia Sagre, Sibalia

Signatural Contract Attenna caldonaca

Simechern Rubas specialis Security Sec

Susselfus authorization Sour-ood

Baydenervat arbareum Semac:

Possoc* Rhus eerns

Smooth* Rhus glabra Winged"

Rhus copallina

Sweetigum Linguidambat siyracillisa

Swardiern" Polystichum associem

Fallentine, Chinese Lipiam sebelerum Manuzatida

Arciasiaphylus spp.

Tan Cak

Lithocarpus densiflarus

Thimbleberry

Rubus parviflorus

inducto, tree*

Nicotiana glauca Trumpeteresper

Camptis radicans

William o

Salin sup.

Russian clise.

MOTE: If brush has been moved or filled or frees have been cut, do not been outil regrowth has reached the recommended stages of growth.

Apply this product when plants are actively growing and, unless otherwise directed, after full leaf expansion. Use the higher rate for larger plants and/or dense, areas of growth. On when, use the higher rate for plants that have reached the woody stage of growth. Best results are obtained when application is made in take summer or (all after froit formation.

to aild areas, best results are obtained when application is made in the spring to early summer when brush species are at high moisture content and are flowering.

Ensure thanough coverage when using hand-held equipment. Symptoms may not appear prior to frost or senescence with fall treatments.

After 7 or more days after application before tillage, moving or removal. Repair treatments may be necessary to commot plants regenerating from underground parts or seed. Some authors colors on undertraints deciduous species are acceptable provided no major leaf drop has occomed. Reduced performance may result if fall treatments are marke following a first.

See "Directions for Use", and "Mixing, Astilities, and Application Instructions" sections of this label for labelled uses and specific application with unitions.

Apply this product as follows to control or partially control the following woody brash and trees.

Adds:/Dewberry/Honepartile/Post Bak/Rasphersy-For control, apply 3 to 4 quarts per acre of this product as a broadcast spray or as a 1 to 1% percent solution with hand-held equipment.

Aspen, qualing/Cherry, bitter, black, pin/Marchorn /Oak, southern red/Sweetgum/Trumpelpresper—For control, apply 2 to 3 quarts of this product per acre as a broadcast spray or as a 1 to 1 H dercent solution with hand-held equipment.

Birth/Elderberg/Hazei/Sakounberg/ Thimblebergfor control, apply 2 quarts per acre of this product as a broadcast spray or as a 1 percent solution with hand-held equipment.

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[&]quot;Partial metrol

^{**}See below im control or partial commit instructions.
***This product is not registered in California for use on

Blackberry—For control, apply 3 to 4 quarts per acre of this product as a broadcast spray, or 1 to 1% percent solution with hand-held equipment. Make application after plants have reached full leal maturity. Best results are obtained when applications are made in late summer or fall. After berries have set or dropped in late fall, blackberry can be controlled by applying a 3/4 percent solution of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume with hand-held equipment. For control of blackberries after leal drop and until killing frost or as long as stems are green, apply 3 to 4 quarts of this product in 10 to 40 gallons of water per

Brown: French, Scotch—For control, apply a 1% to 2 percent solution with hand-held equipment.

Buckwheat, California/Hasardia/Monkey Flower/ Tobacco, tree—For partial control of these species, apply a 1 to 2 percent solution of this product as a foliar spray with hand-held equipment. Thorough coverage of foliage is necessary for best results.

Catsclaw—For partial control, apply as a 1 to 1% percent solution with hand-held equipment.

Copute Brush — For control, apply a 1 ½ to 2 percent solution with hand-held equipment when at least 50 percent of the new leaves are fully developed.

Eucalyptus/Bluegum—For control of eucalyptus resprouts, apply a 2 percent solution of this product with hand-held equipment when resprouts are 6 to 12 feet

tall. Ensure complete coverage. Apply when plants are growing actively. Avoid application to drought-stressed plants.

Kudzu—For control, apply 4 quarts of this product per acre as a broadcast soray or as a 2 percent solution with hand-held equipment. Repeat applications will be required to maintain control.

Madrone resprouts—For suppression or partial control, apply a 2 percent solution of this product to resprouts less than 3 to 6 feet tall. Best results are obtained with spring/early summer treatments.

Maple, red""— For control, apply as a 1 to 1% percent solution with hand-held equipment when at least 50 percent of the new leaves are fully developed. For partial control, apply 2 to 4 quarts of this product per acre as a broadcast Spray.

Maple, sugar/Oak, northern pin/Oak red—For control, apply as a 1 to 1½ percent solution with hand-held equipment when at least 50 percent of the new leaves are fully developed.

Poison Ity/Poison Qak—for control, apply 4 to 5 quarts of this product per acre as a broadcast soray or as a 7 percent solution with hand-held equipment, Repeat applications may be required to maintain control. Fall treatments must be applied before leaves lose green color.

Rose, multiflura—For control, apply 2 quarts of this product per acre as a broadcast spray or as a 1 percent

salotion with hand-held equipment. Treatments should be made prior to leaf deterioration by leaf-feeding insects.

Sage, black/Sayebrush, California/Chamise/Tallowires, Chimese—for control of these species, apply a 1 percent solution of this product as a faller spray with hand-held equipment. Thorough coverage of follage is necessary for best opaults.

Tan data responds—For supprecion or partial control, apply a 2 percent solution of this product to responds less than 3 to 6 feet tall. Best results are obtained with fall applications.

Wildow—for control, apply 3 quarts of this product per acre as a broadcast spray or as a 1 percent solution with hand-held equipment.

Other Moody Brosh and Free Exact on this label — For partial control, apply 2 to 4 quarts of this preduct per acre as a broadcast spray of as a 1 to 3 percent solution with hand-beld equipment.

NONCROP USES

See "General information" and "Mixing, Additives and Application Instructions" sections of this issel for exential product performance information and the following "Noncrap" sections for specific recommended uses

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF SPRAY WITH FOLIAGE OF DESIRABLE TURF-GRASSES, TREES, SHRUBS, OR OTHER DESIRABLE

YEGITATION SINCE SEVERE DAMAGE OR DESTRUCTION MAY RESULT

NOTE: If spraying areas adjacent to desirable plants, use a shield made of cardboard, sheet metal or phycoard walks spraying to help present soray from contacting folloge of desirable plants.

Repeat Incomments may be necessary to control weeds repeated and from underground parts or seeds.

Where repeat applications are necessary, do not exceed 10.6 quants of this product per acre on year.

This product does not provide residual weed control. For subsequent weed control, follow a label-agrammo haspicide program.

Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used.

INDUSTRIAL, RECREATIONAL AND PUBLIC AREAS

When applied as directed for "Noncrop Uses", under conditions described, this product controls annual and perennial weeds fisted on this label growing in areas such as airports, disch banks, any ditches, dry canals, fencetors, gelf coorses, highways, industrial plant sites, lumber yards, perling meas, parks, perosum tank farms and pumping instellations, pipetines, talkoads, road-sides, uchooft, storage areas, other public areas and similar indumial or nonestop areas.

For specific rates of application and instructions for control of various annual and perennial weeds and woody brosh and trees, see the "Weeds Controlled" section of this labet.

This purduct may be applied with redisculating sprayers, shielded applicators, or wiper applicators in any noncrop site specified on this label. See the "Selective Equipment part of "Application Equipment and Techniques" section of this label for information on proper use and calibration of this equipment.

TANK MIXTURES FOR INDUSTRIAL SITES

ROUMBUP® das ODST**

Use on industrial sites including allocus, industrial plants, fundaments, patroleum tank farms, pumping stations, pipelines, rolleach, nuddides, storage areas or other similar sites where have ground in desired.

When applied as discord for "Noncrop Disca" under the conditions described, this product plus that provious control of annual weeds fixed in the "Weeds Controlled" section of the label for this product and Dost, and control or partial combol of the paramet weeds kined below.

Apply 1 to 2 quarts of this product with 2 to 4 concess of Gust in 10 to 40 gathons of spray solution per one as a broadcast spray to actively growing weeds.

This product plus Outl tank mixtures may not be applied by air in California.

For control of general weeds, use the lower rates of these moderns.

To comput of the littled personals weeds, use the higher races of both good ucts. For partial control, use the lower most

Buhispasi Papalem relation

igh reseng ress? * Sarghum hais pense

Вилови<mark>тья*</mark> Супавал аженюя

Parrioe** Drodia feles

Broomsedge Androogoo ergisicas

Quartegran Altropped repeat

Deck, curty frames crispus ₹гапаратогееран* Семпрыя люборея

Doglennet

Yanggas Pagalon ambe

Eupatorium capillitorum

Fermin, biss

Fescue, to 8

repen paris

Fe⊈uca arundinatea

Read and carefully observe the cautionary statements and all other information appearing on the labels of all harbicides used.

^{*}Suppression at the higher rates only.

[&]quot;Camed at the lower rates.

ExClust if a traditional of L. f. du Pont de Nerrouir, and Company

TANK MIXTURES NONCROP SITES

When applied as a task mixture, this product provides control of the entergral arrestal weeds and partial control of the entergral percental secula fact in this label. When applied as a lank mixture, the following residual herbicates will provide presenting need control of the weeds listed in the individual product labels.

	HOUNDUPO pic Cillingn	
	ROUNDUP plus (ROWAR TH)	•
	RÓUNDUP plus ESCHAR II	8
	ROUNDUP plus Roastar" sowp	
	ROUNDUP plus SIMAJIME, Princepin caliberin 90	-
4	ROUNDIEP ples SIMAZINE 4L	
	ACAUNDUP plus simazine bom	
•	NOUNDUP plus surplan ^{ia} 75m	
	ROUNDUF plus SVBFLAM AS	

When tank mixing with residual herbirides, add an agriculturally approved reminde surfactant at 0.5 in 1 percent by withing adjusted by withing addition. See the "Mixing additions and Application Instructions" section of this label before properting these tank mixtures.

Head and carefully observe the label claims, configurary transmiss, recommended use rates and all older lights.

mation on the labels of all graduats used in these tank mixtures. Use according to the mass restrictive label directions to each paradact to the mixture.

CONTROL OF EMERGED WEEDS

Annual Weeds — Apply 1 quart per acre of this product in these task minitures when weeds are less than 6 inches tall and 1 in quarts per acre when weeds are more than 6 inches tall.

Personial Wants—for partial control of praencial woods using these tank microwes, apoly 2 to 5 quarts per acre of this product. Follow the recommendations in the "Weeds Conjecting" section of this tabel for stage of growth and rate of application for specific personal vects.

PREEMERGENCE WEED CONTROL

for preemergence week control, rates to the individual product labels for specific potential sites, rates, carrier volumes and precautionary statements.

Mix only the quantity of soney solution which can be used during the same day. On not allow these can't mixtures to stand mercipist as this may result in reduced weest control.

APPLY THESE TANK MIXTURES THROWEN CONVEN-TIONAL BROADCAST SOMEMENT ONLY.

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The Printed and Californ are transmitted of Liber-Leige Composition.

The products a conductor's of E.J. dia Plant on the mesons and Company.

The Books in a basecuark of Ripage Product, Inc.

THE Surface is a transcript of Lience Products Company.

FARMSTEAD WEED CONTROL

when applied as directed for "Noncrop Uses", under conditions described, this product controls undesirable regestation fixted on this tabel around farmstead building soundations, along and in lences, shelterbelts, and los general agressives termstead weed control.

For specific races of application and instructions for control of various annual and perennial weeds, see the "Weeds Controlled" section of this label.

ORNAMENTALS AND CHRISTMAS TREES

THIS PRODUCT IS NOT RECEMMENDED FOR USE AS AN OVER-THE-TOP BROADCAST SPRAY IN DANAMENTALS AND CHRISTMES TREES.

When applied as instructed for the conditions described for "Noncrop Uses", this product controls undestrable regetation listed on this label price to planting to assess tals, within and around preschouses and shaddhouses, and as a postdirected spray around established programmentals.

For specific rates of application and instructions for control of various annual and perennial wends, see the "Weeds Controlled" Section of this label.

When repeat applications are necessary, do not exceed 10.6 quarts of this product per acre per year.

Site Preparation—Following preplant applications of this process and community species may be planted during the preparation applications.

Greenhouse/Shedehouse Use—this product may be used to control weeds inted on this label which are growing in prepriouses. Desirable regulation must not be present during application and an circulation faits must be formed oit.

Postdirected Spray—Use as a postdirected spray around salabilished woody americenses upocass such as these instod below. Care must be exercised to aroun contact of spray, drift or mist with foliage or green bank of entabtished americal species.

uborii	lat
Thusa	SOP.

ilat

Бутин<u>да 1</u>00.

Apples

Magnosa

Rhododendion spp.

Regardia 180,

ලිග අගර

Maple Acti top

Вихиз зра.

Dak

Crabapple Malus spp.

Quercus spp.

.....

Privel

Ецьпутия Ечепутия гер.

Ligustrom spp.

Br

Pine

Aक्षेत्र 10g.

Pinus spp.

Paradelsega sag.

Space

)राइंक्टिक

Pices spo

Simmendad chinesis

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Helifes.

ंग्य विभाग आहे.

then how.

CUT STUMP TREATMENTS

Woody vegetation may be controlled by treating Ireshly cut stemps of trees and resprouts with this product. Apply this product using suitable equipment to ensure coverage of the entire cambium. Cut vegetation close to the soil surface. Apply a 50 to 100 percent solution of this product to the freshly out surface immediately after cutting. Delays in application may result in reduced performance. For best results, applications should be made during periods of active growth and full leaf expansion.

When used according to directions for cut stump application, this product will CONTROL, PARTIALLY CONTROL or SUPPRESS many types of woody brush and tree species, some of which are listed below:

Alder

Reed, giant

Alnus sop.

Arundo donax

Eucalyptus/Bluegum

Sattcedar Tamarisk spp.

Eucalyptus glotulus

Sweetgum

Madrone Arbutus menziesii

Liquidambar styraciflua

Oak

Tan Oak

Quercus spo.

Lithocarpus densitiorus

INJECTION AND FRILE **APPLICATIONS**

Woody vegetation may be controlled by injection or friff application of this product. Apply this product using suitable equipment which must penetrate into the living

tissue. Apply the equivalent of 1 ml of this product per each 2 to 3 inches of trunk diameter (DBH). This is best achieved by applying 50 to 100 percent concentration of this material either to a continuous frill around the free or as cuts evenly spaced around the tree below all branches. As tree diameter increases in size, better results are achieved by applying diluted material to a continuous frill or more closely spaced cuttings. Avoid application techniques that allow runoff to occur from frill or cut areas in species that exude sap freely after frills or cutting, in species such as this, make full or cut at an oblique angle so as to produce a cupping effect and use undiluted material, for best results, application should be made during periods of active growth and after full feat expansion.

This treatment WILL CONTROL the following woody species:

Oak

Sweetgum

Quercus spp.

Liquidamber styracillua

Poplar

Spramore

Populus spp.

Platanus occidentalis

This treatment WILL SUPPRESS the following woody species:

Black gum

Hyssa sylvatica

Hickory

Dogwood

Carya spp. Maple, red

Cornus spp.

Acet rubram

TURFGRASSES AND GRASSES FOR SEED PRODUCTION

PREPLANT AND RENOVATION

When applied as directed for "Noncorp Uses", under complitions deposited, this product consults most existing vegetation prior to the planting or renovation of either furigrature to pana send production areas.

for specific rates of application and instructions to contrif of various annual and perennial weeds, and woody trush and trees, see the "Weeds Controlled" section of this label.

for maximum contrat of existing vegetation, drive planting to determine if any regrowth from encaped underground plant period occurs. Where repeat treatments are necessary, sufficient regrowth must be obtained point to application. For warm season grassle, such as betterfulgrass, summer or fall applications provide best control, OO NOT DISTURB SON, OR UNDERGROUND PLANT PARTS BEFORE TREATMENT, Tillage or renovation techniques such as vertical moving, cooling on allining should be delayed for 7 days after application to allow proper translocation into underground plant parts.

TURFGRASSES

Where existing regetation is growing in a first to unmowed situation, apply this product to actively growing weeds at the stages of growth given in the "Weeds Controlled" section of this label.

Where existing regretation is growing under moved turgrean management, apoly this practical after omitting of least one regular moving to allow willicient growth for grow interception of the spray.

Deviable build process may be provided toblewise the above procedures.

GRASSES FOR SEED PRODUCTION

Apply like predict to archest growing weets at the stages of growth given in the "Wiserts Controlled" section of this libbel orion to planting or removation of tool or larage grass great grown for seed production.

OD NOT took or grace treated areas within 8 weeks after application.

ANNUAL WEED CONTROL IN DORMANT BERMUDAGRASS AND BAHIAGRASS TURF

When applied as directed for "Moocrup tises" under the conditions described, this product will provide control or suppression of many winter annual weeds and utilities que ign effective refeate of domaint bermudagrass and babiggess lurit. Refer to the rate table for Roundup alone under the "Refeate of Bermudagrass and Babiggess" section of this label for recommended rates and volumes on the species to be suppressed to control to spring greenup. Spot heatments or provided this product in excess of 16 fluid exacts per acre may result in injury or delayed greenup in highly maintained turing assigness.

i.e., gotf courses, tayms, etc. OO NOT APPLY TANK MIX-TURES of this product plus Oust in highly maintained turkers areas.

RELEASE OF BERMUDAGRASS OR BAHIAGRASS

NOTE: the only in arran where her mudagrass or bahisgrass are desirable ground cayers and where some temporary injury or decorporation can be sub-rated. Use tank mixtures of this product plus Burst only on railroads, highways, sublity plant sites, or other right-of-way arces.

When applied as directed for "Noncroa Uses" under the conditions described, this product will provide control or suppression of many winter annual weeds and laft tescue for effective release of dominal beamudagrass or behiagrass. This product may be tank-mixed with Oust as recommended for residual control. Make applications to domain beamudagrass or behiagrass. Task mixtures of this product plus Oust may delay greenup. To avoid does lays in greenup and minimize injury, do not add more than it ounce per acre of Oust on bernaudagrass or much than it ounce per acre on behiagrass, or treat when these grasses are in a semi-dormant condition.

For best results on winter annuals, treat when plants are in an early growth stage (below 6 inches in height) after most have garminated. For best results on tall testine, treat when lessue is in or beyond the 4 to 6 leaf stage.

WEEDS CONTROLLED

Have recommendations for control to suppression of winter annuals and tall forcus are lived below:

Apply the recommended rates of this product alone or as a tank mixture in 10 to 25 garbons of water, plus 0.5 to 1 percent nothionic surfectant by total spray volume os: acre.

for the best recommendation for the mixture of weeds within your geographic areas, contact your Montanto rates representative.

WEEDS CONTROLLED DR SUPPRESSED WITH ROUNDUP® ALONE*

NOTE: C = Control

5 = Suppression

	ROUNDUP FLUID DZ/ĄĆŔ					
WEEO SPECIES	8	12	16	24	32	54
Burkey, Ettis Haldstein position	2	Ç	£	¢	Ċ	Ç
Bedsiume, talube ead Galisen aparine	Š	Ç	€	¢	¢	C
विञ्चास्य, स्थापन १६२ इकाव्य	5	C	C	C	Ċ	¢
Chemil Chaeraphylium Iaistanieri	\$	£	ľ	¢	K.	£

						78
	ROU	NDU	P FŁ	UID	02//	CRI
WEED SPECIES	8	17	16	24	32	64
Chickweed, common Stellaria media	S	£	С	¢	¢	Ç
Clover, crimson Tritolium incarnatum	. •	S	S	C	C	С
Clover, targe hop Trifolium campestre	•	S	S	C	€	C
Fescue, tall Festuca orundinaceae	•	•	٠	•	S	S
Geranium, Carolina Geranium carolinianum	•	•	\$	S	C	C
Henbit Lamium amplexicaule	•	\$	£	¢	С	C
Ryegrass Italian Colium multiflorum	•		\$	c	c	С
Speedwell, com Veronica arvensis	\$	C	C	Ç	£	C
Vetch, common Vicia sativa	•	•	\$	С	С	€

*These rates apply only to sites where an established competitive turf is present.

WEEDS CONTROLLED OR SUPPRESSED WITH ROUNDUP® PLUS OUST*

NOTE: C = Control S = Suppression

ROUNDUP + GUST								
R	OUNDUP							
(!	IL 02/A)	8	15	12	16	16	15	16
WEED .	+	+	+	+	+	+	+	+
SPECIES	12UO (A\50)		¥4	4	¥4	,	1	
Barley, little Hordeum ousikum)	C	£	С	C	ε	С	Ç
Bedstraw, catchwei Galium aparine	rd	£	£	С	C	£	С	C
Bluegrass, annual Poa annua		\$	C	С	C	C	C	C
Chervil Chaerophyllum taintuneri		С	С	С	¢	C	ε	С
Chickweed, commo Stellaria media	n	S	С	C	C	Ç	Ċ	C
Clover, crimson Trifolium incarnat	μfn	2	2	S	\$	£	C	C
Clover, large hop Trilolium campest	re	•	•	S	S	S	C	C
Fescue, tall Festuca arundinad	ese:	•	•	•	•	•	S	2
								70

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OL OZ/A) 8 12 17 16 16 12 15 WEED OUST &

SPECIES (0*UA*)

Restrium, Carelina * S S C C C C ទីខារពួក សម្រើបនៃកុរក្រា

Kendit . . * S C C C C C Lampin smalericasie

• \$ \$ 6 6 6 6 Rygyes, Man taliam multiharum

S C C C C C C Speccuell, com Vercoica arrentis

Valch, common 0000000 Vicia satira

*These rates or minutered of hales apply only to sites where an established competitive torf is present.

RELEASE OF ACTIVITY GROWING BERMUDAGRASS

When applied as directed, this product will and at the release of becomploagrass by providing control of agency) species listed in the "Weeds Controlled" section at this and the Oust label, and suppression or partial control of certain perennal weeks

for control or supporteside of those engual species lighed on this label, use i to 3 pants of this product as a browncast speay in \$0 to 25 gallens of spray soletion per sore. Use the lever rate when treating arrival e-cors below \$

inches in height (or length til runten in samual rings). Des the higher rate as plant size moreover or as they approach flower or smedhead formation.

Use the higher rate of this product for partial control of the following parenoial species. Use the lower sates for supplements of growth. For best (equify, see the "Weeds Controlled" section of this label for proper stage of grewth.

Babilayasa.

Jahr=अक्रकार्थ* Paspalum notatum **Согранн**а жаберение

Bluestem, silver

*भावकाशक्रकार्थ

Апагородов засказнаява

Campses radicans

Fescus tell

रक्षा क्रम

FESTIVES PLANTAGE OF

Pascalum ander

"Subgression at higher rates only.

** Control at the higher rates.

This product may be tank-mixed with their. If tankmated, alse no more than I to I plans per acre of this product with 1 to 2 conces of Dust per agre.

Lise the item rates of both mintures to control annual weeds below & inches in height for tunner length in annus: sees) that are hired in the "Weeds Controlled" section of this booklet and the Oost label. Use the higher करी ते हुस्त हुए होतर होतर होता है जान करने में जिन्हा है है जिन्हा है है filemen or swedthead stages.

the the higher rates of this product to provide partial control of the following personnial weeds. Use the lower rates for suppression of growth.

Bahingrass

Paspalum notatum

lohesnagues* Sughum halepense

Blyerem, sike

हैतवानमञ्जूषा ज्ञादवाकावान

Poorjoe** Diodia teres

Brannudge Andropegan eingibiges

Trainpetcreeper*
Compas radicans

Dock (us#y

Yeseppiers

Rumes estiques Desciented Paspalum arvillei

шерити - Екомпект сарынайын Verwin, blue

e national designation designation of the second designation of the se

Verbena hastata

feson, wi

Ремиса анцафиласы

"Suppression at higher rates only.

**Control of the higher rates.

Use only on well-established bermudagrass. Bermudagrass injury may result from the treatment but regrowth will occur under moist conditions. Repeat applications in the same season are not recommended, since more injury may result.

Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used.

COOL SEASON TURF GROWTH REGULATION

When applied as directed, this product will suppress grawth and seedhaad development of listed full species to industrial sites.

This pressure is recommended for management of coarse turts do readside rights of way or other industrial areas. Do not use on high-quality turt or other areas where some turt color changes cannot be tolerated. Slight turt discountailon may occur but turt will regreen and regrow and moist conditions as affects of this quoduct wear

Apply 4 to 6 fluid owners of this product set acre alone of my recommended Lank mixture. Sonay volumes of 10 to 40 gallons are acre are recommended.

When young this grodect, mix 2 quarts of a Honoroic sorlactant per 100 gallons of spacy solution.

This product can be used for growth and seesbead suporestion of:

Fall fescue Smooth Brome

For best results, apply this groduct in a racommended task marture to actively growing jurigrasses after greening in the spring of the year. For suppression of senetheads, applications must be made before boot-to seconead stage of development. Applications made from seedhead strengence until maturity may result in furt discoloration or injury.

After moving or removal of seedheads, this product in a recommended task mixture may also be used to supmess, the growth of certain tudipasses. Allow turk to recover from chees caused by heat, drought, or moving before making applications. Applications made to full under stress may increase the potential for describination or injury.

ANNUAL GRASSES

For growth suppression of some annual grasses such as annual ryegrass, wild baster and wild oats, apply 3 to 4. Build conces of this product in 10 to 40 gallons of spray solution per acre. Applications undulf be made when annual grasses are actively growing and before the secondards are in the boot stage of development. Treatments made after southead energence may cause injury to the desired presses.

TANK MIXTURES

for the following tank mixtures, consult each product label for weeds controlled and the correct stage of application. Do not treat turf under stress,

Zank misturer plas 2,4-0 Amine

For additional weed control benefits, up to 1 pound a ... oer acre of 2,4-0 amine may be added to the following tank mixtures. Consult the ligher for 2,4-0 amine for weeds controlled.

TALL FESCUE

Roundup plus Yelar

For suppression of fall fescue growth and seedheads, and control or partial control of some annual weeks, apply this tank mixture after greenup and prior to boot-seedhead stage of development. Use up to Micunce of Felar per acre.

This tank mirture can also be applied after mowing or removal of tall feature sensitizeds for fortigrowth suppression. Make only one of the above applications pro growing season.

Rapadep ping Cust**

For suppression of bill finding growth and specification, and control or partial control of some annual weeds, apply this tank mixture after greenup and prior to book seedhead stage of development. Use up to 174 ounce of Out per acre.

Roundup ples Carret*

This tank mixture can be applied after moving or removal of call feacus send/mads for furl growth suppression and control or partial control of some annual wends. Use up to 173 ounce of Escort per acre.

SMOOTH BROME

Reundup plan Syst

For suppression of smooth brone growth and seedleads and control or partial control of some annual weeds, apply this tank mixture after greenup and prior to boot-to-seedlead stage of development. Die up to 174 ounce of Dost per acre.

Typical and Jetse are it administrately (), it do from the Neuman's and German's

BAHIAGRASS SEEDHEAD AND VEGETATIVE SUPPRESSION

When applied as directed in the indicated noncrop areas (roadsides, airports, golf course roughs, and plant sites), this product will provide significant inhibition of seed-head emergence and will suppress regelative growth for a period of approximately 45 days with single applications and approximately 120 days with sequential applications.

Apply this product 1 to 2 weeks after full greenup of bahizgrass or after the bahizgrass has been mawed to a uniform height of 3 to 4 inches. Applications must be made prior to seedhead emergence. Apply 6 fluid ounces per acre of this product plus 0.5 to 1 percent nonionic surfactant by total spray valume in 10 to 25 gallons of water per acre.

Sequential applications of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume may be made at approximately 45 day intervals to extend the period of seedhead and vegetative growth suppression, for continued seedhead suppression, sequential applications must be made prior to seedhead emergence. Apply no more than 2 sequential applications per year. As a first sequential application, apply 4 fluid ounces of this product per acre plus nonionic surfactant. A second sequential application of 2 to 4 fluid ounces per acre dus nonionic surfactant may be made approximately 45 days after the last application.

A tank mixture of this product plus Oust may be applied only on roadsides for seedhead inhibition and vegetative suppression. Apply 6 fluid ounces per acre of this product plus 0.25 ounce per acre of Oust, plus 0.5 to 1 percent nonionic surfactant by total spray volume 1 to 2 weeks following an initial spring mowing. When using this product plus Oust for suppression of bahiagrass, make only one application per year.

CROPPING SYSTEMS

When applied as directed for "Cropping Systems", under the conditions described, this product controls annual and perennial weeds listed on this label, prior to the emergence of direct seeded crops or poor to transplanting of crops listed on this label.

See "General Information" and "Mixing, Additives and Application Instructions" sections of this label for essential product performance information.

See the following "Cropping Systems" sections for specific recommended uses:

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF SPRAY WITH FOLIAGE, GREEN STEMS OR FRUIT OF DESIRABLE CROPS, PLANTS, TREES OR OTHER DESIRABLE VEGETATION SINCE SEVERE DAMAGE OR DESTRUCTION MAY RESULT.

Repeat treatments may be necessary to control weeds regenerating from underground parts or seed. Except as otherwise specified on this label, repeat treatments must be made before the crop emerges in accordance with the restructions of this label.

Except as otherwise specified in a crop section of this label, the combined total of all treatments must not exceed 8 quarts per acre of this product per year.

Do not plant subsequent cops other than those on the label for 30 days following application.

Do not trainest or feed meater regulation for 8 weeks following application. Following spot beatment or selectine equipment use, allow 14 days before graving domestic livestock or harmesting lorage grasses and legumen.

ALFALFA* LETTUCE ARTICHDKE LOGANBERRY HEATUSALEM LONGAN ASPARAGUS* LYCHEE MELDHS*** ATEMOTA MUSTARO GREENS BARLEY* BEANS (All) 0275* BEET GREENS CXAA DLALLIE BE BBT BEETS (Red, Sugar) BLACKBERRY CHICH BLUEBERRY PARSNIPS BOYSENBERRY PASSION FRUIT BREADFRUIT PEANUTS BROCCOLL PEAS (ALI) PEPPER CABBAGE CANISTEL PERSIMMONS PINEAPPLE CARAMBOLA CARROT POTATO GREA. Sweet) CALLIFLOWER **华鲜园界的1到4年**

EXILERY RACING
CHICAGO RACEPORT RACEPORT
CONCOUNT RICEY
COTTON* RUTABAGA
CULLMBERTY SAPOTIL
CULLMBER*** SAPOTI
CURRANT RELA MATHER, White}
CAFES SOROHUM (Mile)*

CEMBERRY

EGGPLANT SOTECANS? ELDERBERRY SPINADI SOURSH*** (Summer. FORAGE GRASSES* FORAGE LEGUMES* Water) GARLIC*** SUGAR APPLE TAMÁRIND GOOSEBERRY GOUROS*** TOMÁTICO*** TOMATOES**** HORSERADISH HUCKLEBERRY TURNIPS ***223RDRTAW IABOTICABA WATERMELON*** **INCRERIGI** WHEAT MALE YAMS LENT(LS

SOURSOP

*Spot treatments may be applied in these crops.

- **So not treat rice fields or levers when the fields contain flood water.
- ***Apply only prior to planting. Allow at least 3 days became application and planting.
- ***** Do not text to grave treated pineapple totage foliowing application.
- 1 the in reprinted to direct seeded cross only.

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When applying this product prior to transplanting crops into plastic mulch, care must be taken to remove residues of this product from the plastic prior to transplanting. Residues can be removed by 1/2 inch natural rainfall or by applying water via a sprintler irrigation system.

Spot Treatment (Only those crops with """ can be spot treated.)—Applications in growing crops must be made prior to heading of small grains and milo, initial pod set in soybeans, silking of corn, or boll opening on cotton.

For forage grasses and forage legumes see "Spot Treatment" in the "Pastures" section of "Cropping Systems" in this tabel

For dilution and rates of application using boom or handheld equipment, see "Mixing, Additives and Application Instructions" and "Weeds Controlled" sections of this label.

NOTE: FOR FORAGE GRASSES AND FORAGE LEGUMES, NO MORE THAN ONE-TENTH OF ANY ACRE SHOULD BE TREATED AT ONE TIME. FOR ALL OTHER CROPS, DO NOT TREAT MORE THAN 10 PERCENT OF THE TOTAL FIELD AREA TO BE HARVESTED.

THE CROP RECEIVING SPRAY IN TREATED AREA WILL BE KILLED. TAKE CARE TO AVOID DRIFT OR SPRAY OUT-SIDE TARGET AREA FOR THE SAME REASON.

Selective Equipment—This product may be applied through recirculating sprayers, shielded applicators, or wiper applicators in cotton and soybeans. Shielded and

wiper applicators may also be used in tree crops and grapes. Wiper applicators may be used in rutabagas, forage grasses and forage legumes, including pasture sites and grain sorghum (milo).

See the "Selective Equipment" part of the "Application Equipment and Techniques" section of this label for information on proper use and calibration of this equipment.

Allow at least the following time intervals between application and harvest:

Cotton, Soybeans 7 da
Apples, Atemoya, Avocado, Breadfruit.
Canistel, Carambola, Cherry, Citrus,
Dates, Grapes, Jaboticaba, Jackfruit.
Longan, Lychee, Passion Fruit, Pear,
Persimmons, Rutabagas, Sapodilla,
Sapote, Soursop, Sugar Apple, Tamarind 14 di

 Sapote, Soursop, Sugai Apple, Tamarind
 14 days

 Stone Fruit
 17 days

 Nut Crops
 21 days

 Sorghum (milo)*
 40 days

*Do not use roller applicators. Do not feed or graze treated milo fodder. Do not ensite treated vegetation.

ASPARAGUS

When applied as directed for "Cropping Systems" under the conditions described, this product controls weeds listed on this label in asparagus.

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For specific rates of applications and instructions for control of various annual and perennial weeds, see the "Weeds Controlled" section of this label.

Prior to Crop Emergence—Apply this product given to crop emergence for the control of emergence labeled about and percential weeds. CO NOT APPLY WITHIN A WEEK REFORE THE PLAST SPLARS EMERGE.

Spot Treatment—Apply this product immediately after coming, but prior to the emergence of new spears. On not best move than 10 percent of the total field area to be harvested. On not harvest within 5 days of treatment.

Perthament—Apply this product after the last harvest and all spears have been removed it spears are allowed to regrow, delay application until terms have developed. Delayed treatments should be applied as directed or shielded spray in order to avaid contact of the spray with terms, stems or adexic. Direct contact of the spray with the asparagus may result in serious crep injury.

NOTE: Select and use recommended types of spray applications. A directed spray is any applications. A directed spray is any application whose the spray partiers is aligned in such a way as to avoid direct contact of the spray with the crop. A shielded spray is any application where a physical barrier is positioned and maintained between the spray and the zrop to prevent contact of spray with the crop.

BERRIES AND SMALL FRUITS

for cranbomics, apply after trult set and no total than 30 days before harrest.

For other bennes, apply as a preplant broadcast application, or as a directed spiley or winer application postplanting.

Wiper applicators may be used in cranbernes in accordance with instructions in this section.

See "General Information" and "Miring, Additives and Application instructions" socialised this label for essential product performance information.

See the "Selective Equipment" part of the "Application Equipment and Techniques" section of this facel for internation on recommended use and calibration of this equipment.

for Wick or other Wiper Application—Mix i gation of the product to 4 gations of water to prepare a 20 percent solution. Apoly the solution to emerged weeds, Apply after crapperly truit set and no later than 30 days before harvest.

In severe infestations, reduce employment ground speed to ensure that adequate amounts of this product are wiped on the weeds. A second treatment in the opposite direction may be beneficial.

Do not permit herbicide solution to cantact desirable vegetation, including green statuts, cases, or foliage.

FALLOW AND REDUCED TILLAGE SYSTEMS

FOR AERIAL APPLICATION IN CALIFORNIA, REFER TO SUPPLEMENTAL LABEL

Use this product in fallow and reduced tilkage systems for control of annual weeds prior to amergence of cross tisted in this tabet. Refer to the "Weeds Combulled" section of this tabet for specific rates and instructions. This product may be applied using ground or secial spray equipment. See the "Application Equipment and Texaniques" section of this labet for instructions.

	TANK MIXTURES	
	bar indiabur 20 blatjaut Bonwondo dre eneafer	=
•	roundup pro 2,4-0 pro rondung suppletant	=
•	roundur _{påes} gall ^m påes komionie surfactant	
4		

CO MOT APPLY BANYEL OR 2,4-0 TANK MIXTURES BY AIR IN CALIFORNIA.

Applications at 7,4-0 or Sanvel must be made at hazel 7 days prior to planting corn. Applications of 7,4-0 must be made at least 30 days prior to planting sandeans.

The addition of Barnel In a mixture with this product may provide short-term residual control of selected weed species. Some crop injury may occur it Barnel is applied

within 45 days of planning, Refer to the Barant one 2,440 labels for cropping restrictions, and other use instructions.

Roundup ples Good Tago Mutures

This product alone or in tank minimum with Goal blus R.S. to I percent nonlocid surfact land by total spray volume will provide control of those weeds listed bylow.

Make applications when weeds are actively growing and at the recommended stages of growth. Arold spraying when werets are subject to morture stress, when dust is on the folloge or when show concept covers the weeds.

73 gray etc. MOMMON		ROUNDUP 16 fluid 62/36/16		
Wheel Banity	18** 12*	Animal grasses at left plus:		
Buegrafi, annual Bassyandgrafii Rye	6* 6* 6*	Ryegrass, annual Chickweed Groundsel Marcstail Rocket, London Shepberdspurse Crabignass tobosongress, seedling Lumbsquarters Data, wild Pigweed, reducet Mustands	6.55.5.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7	
			XA.	

<u> </u>			96	
ROUNDUP	;	AUGHION	*****	
17 fivid ce/a	trŧ	16 fluid az/zere		
+		*		
GOAL**		COM**		
2 to 4 finid or	8516	2 to 4 fluid oz/acre		
Annual grasses above		Annual weeds above		
ples:		plus -		
Cheeseweed,		Choeseweed,		
telmmon	3*	COTTATION	€.	
Chickweed	J.	Groundsei	\$"	
Croundiel	3*	Chickweed	12"	
Rocket, tenden	67	Rocket, Lendon	12"	
Shepherdapurse	€2	Shapherdispurse	17"	

[&]quot;Maximum beight to length is isobes.

These recommended lasts minimum may be applied using ground an arrish wray equipment. Refer to the "Hierds Controlled" section of this label for specific rates and instructions.

^{IN}CONT IS A THOROMAN OF ROYAL AND AND CHOROMY.

ECOFARMING SYSTEMS

The recommendations made in this section are not registered for use in Delifornia.

The Ecoleming System consists of the following rotation: winter wheat, construction, ecolallow.

Use the following tank mixtures for control of emerged annual weeds before planting corn or sarghum in the Ecoloroming System.

ADUNOUP® at 16 to 20 fisité opiness par acre

মূদ্য

2,4-D at 0.375 to 0.5 pound a.i. per apre slot

ATRAZENE zi 0.75 in 1 pound sit, per sore plus

LASSO at 2.5 to 3 quarts per acce

The above tank meeting should be applied in 28-0.0 or 32-0.0 liquid fartifier carrier at 20 to 30 gators on ours. The liquid fartifier may be diluted with water to achieve the required carrier volume.

WEEDS CONTROLLED—The billowing weeds, up to a maximum height of 4 inches, will be controlled:

Barane, daming

Bronus ressaum

Lefferte, prickly Lacrosca servicia

Chart

Pipe सर्वे, सर्वतम्ब

म्ब्याः विकासन्य **अट**्यांनयः Amaianthus retrollexus

Fortall, geen Selarê nirdîr Thistie, Russian Salsola kali

Furthill, pellon Selaria hytencens Wheat, volunteer Triticum zestirum

Xechia*

Kochia scoparia

*for improved control of kochia, add 4 fluid ounces per acce (0.125 pound a.i. per acce) all Banvet to the above tank mixture.

[&]quot;* Use the higher rate water words approach continue recommended height or stands are dense.

Risk of crop injury from 2,4-0 or Banvel can be reduced by applying this treatment 7 to 14 days before planting. Refer to the label booklet for Lasso herbicide for preemergence weed control achieved by this tank mixture. Refer to the specific product labels for crop rotation restrictions and cautionary statements for all products used in these tank mixtures.

Lasso is a registered trademark of Monsanto Company.

AID TO TILLAGE

This product, when used in conjunction with preplant tillage practices, will provide control of downy brome, cheat, volunteer wheat, tansy mustard and foxtail, Apply 8 fluid ounces of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre. Make applications when weeds are actively growing and before they are 6 inches in height. Application must be followed by conventional tiltage practices no fater than 15 days after treatment and before regrowth occurs. Allow at least 1 day after application before tillage. Tank mixtures with residual herbicides may result in reduced performance.

PASTURES

Apply this product prior to planting forage grasses and legumes.

Pasture or Hay Crop Renovation—When applied as a broadcast spray, this product controls the annual and

perennial weeds tisted in this label prior to planting torage grasses or legumes. Remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting.

Spot Treatment – When applied as a spot treatment as recommended, this product controls annual and perennial weeds listed in this label which are growing in pastures, forage grasses and forage legumes composed of bahiagrass, bermudagrass, bluegrass, brome, fescue, orchardgrass, ryegrass, timothy, wheatgrass, alfalfa or clover.

Wiper Application—When applied as directed, this product controls or suppresses the weeds listed under "Wiper Applicators" in the "Selective Equipment" section of this label.

For spot treatment and wiper application, apply in aleas where the movement of domestic livestock can be controlled. No more than one-tenth of any acre should be treated at one time. Further applications may be made in the same area at 30 day intervals. Remove domestic livestock before application and wait 14 days after application before grazing livestock or harvesting.

SUGARCANE

When applied as directed for "Cropping Systems", under the conditions described, this product controls those emerged annual and perennial weeds listed on this label growing in or around sugarcane or in fields to be planted to sugarcane. This product will also control undesirable sugarcane. NOTE: Where repeat treatments are necessary, do not exceed a total of 10.6 quarts of this product per acre per year. Do not apply to vegetation in or around ditches, canals or ponds containing water to be used for irrigation.

Broadcast Treatment—Apply this product in 10 to 40 gallons of water per acre on emerged weeds growing in fields to be planted to sugarcane.

For specific rates of application and instructions for control of various annual and perennial weeds, see the "Weeds Controlled" section of this label.

For removal of last stubble or ration cane, apply 4 to 5 quarts of this product in 10 to 40 gallons of water per acre to new growth having at least 7 or more new leaves. Allow 7 or more days after application before tillage.

Spot Treatment in or Around Sugarcane Fields—For dilution and rates of application using hand-held equipment, see "Mixing, Additives and Application Instructions" and "Weeds Controlled" sections of this label.

For control of volunteer or diseased sugarcane, make a 1 percent solution of this product in water and spray to wet the foliage of vegetation to be controlled.

NOTE: When spraying volunteer or diseased sugarcane, the plants should have at least 7 new leaves.

Avoid spray contact with healthy cane plants since severe damage or destruction may result.

Do not feed or graze treated sugarcane forage following application.

CONSERVATION TILLAGE, MINIMUM TILLAGE AND ND-TILL SYSTEMS CORN AND SOYBEANS Tank Mixtures

The recommendations made in this section are not registered for use in California.

When applied as recommended under the conditions described, the tank mixtures listed in this section control many emerged weeds, and give preemergence control of many annual weeds where corn or soybeans will be planted directly into a cover crop, established sod, or in previous crop residues.

Refer to specific product labels for crop rotation restrictions and cautionary statements of all products used in these tank mixtures. For mixing instructions, see the "Mixing, Additives and Application Instructions" section of this label.

Apply these tank mixtures in 10 to 20 gallons of water or 10 to 60 gallons of nitrogen solution per acre before, during or after planting. Do not apply these mixtures after crop emergence.

When tank mixing with residual herbicides, add an agriculturally approved nonionic surfactant at 0.5 to 1 percent by volume of spray solution. The addition of 1 to 2 percent dry ammonium sulfate by weight may increase the performance of this product.

NOTE. When using these tank mixtures, do not exceed 4 quarts of this product per acre.

CORN

For residual control, this product may be tank-mixed with the following translations or combination of herbicides:

LASSO®/ALACHI OR ATRAZINE
LARIAT® CYANAZINE
BULLET® SIMAZINE
ODAL™ PROML®
DICEP®

En improved burndown, this product may be tablemized with 2,4-0 or disamba. Applications of 2,4-0 or disamba must be made at least 7 days prior to planting corn. See the "Weeds Controlled" section for specific rate information.

SOYBEANS

for residual control, this product may be lank-mixed with the following herbicidies or combination of himbicides:

CANDPY" LOROX" PLUS
COMMANO" PREVIEW"

DUAL" PROML"

CEMINI" TURBO"

LASSO®/ALACHLOR SCEPTER"

LEXONE" SENCOR"

LINURON SQUADRON"

For improved buildown, this product may be tank-mixed with the following herbicides:

7,4-0E

"Applications of 2.4-0 must be made at least 30 days prior to planting soybeans. See like "Weeds Controlled" section for specific rate information.

CORN AND SOYBEANS

Amail Wests — for difficult to control weeds such as fall particum, bet maridgrass, crabgrass, shattercane and binartical signalgrass up to 2 inches tall, and Pennsylvana smartweed up to 6 wiches tall, apply this product at 2 pints per acre in these tank mixtores. For other tableted annual weeds, apply 1 to 1.5 pints of this product per acre when weeds are less than 6 inches tall, and 2 to 3 pints when weeds are less than 6 inches tall, for a complete his of annual weeds controlled, see the "Weeds Controlled" section of this table.

Perennial Weeds—At normal application times in manmum tillage systems, perennial weeds may not be at the proper stage of growth for control. See the "Weeds Controlled" section of this label for the proper stage of growth for perennial weeds.

Use of 2 to 4 quarts of this product per acre in the tank mistures mentioned above, under these conditions provides top kill and reduces competition from many emergeo detential grass and broadlest weeds. For emerged perennial weeds controlled, see the "Weeds Controlled" section of this label.

To obtain the desired stage of growth, it may be necestary to apply this guidoct alone in the late summer or fall and than follow with a latel-approved, seedling weed control program at planking.

USE OF THESE TANK MIXTURES FOR BERMUDAGRASS OR JOHNSONGRASS CONTROL IN MINIMUM TILLAGE SYSTEMS IS NOT RECOMMENDED. For bermodagrass control, follow the instructions under "Control of Perennial Weeds" section of this label and then use a label-approved, seedling weed-control program in a minimum tillage or conventional tillage system. For johnsongrass control, follow instructions under "Control of Perennial Weeds" section of this label, and then use a tabel-approved seedling weed-control program with consentional tillage.

Notice, Lexic and Lacratians represents trademacks of themselve. Campany.

ThiConory, Places, German Leadon, Lordo Pice and Previous are spatients of CLI, soften de Nescoun and Company.

¹⁴Dull is a material it of Cab Laig Coppositor.

¹⁸ Series and Turns are mademarks of Reper A.S.

**Pro-1, Scritter and Soutches are trademosts of American Contentiol Europeay.

thCorespond is a traderpolic of FMC Corporation.

PREHARVEST APPLICATIONS

COMON

When applied as directed under the conditions doselibed, this product controls annual and perennial weeks listed on this label prior to the harvest of cotton.

Broadcad Applications -- This product may be applied itsing either aerial or ground spray equipment. For ground applications with broadcast equipment, apply this

product in 10 to 20 gallons of water per acre. For serial applications, apply this product in 3 to 10 gallons of water per acre.

FOR AERIAL APPLICATIONS, REJET TO THE "APPLICA-TION EQUIPMENT AND TECHNIQUES" AND "AERIAL EQUIPMENT" SECTIONS OF THIS LABEL.

FOR AERIAL APPLICATIONS IN CALIFORNIA, REFER TO THE FEDERAL SUPPLEMENTAL LABEL FOR AERIAL AP-PLICATIONS IN THAT STATE FOR SPECIFIC INSTRUC-TIONS, RESTAUCTIONS AND REQUIREMENTS.

OO NOT EXCEED A MAXIMUM RATE OF T QUART PER ACRE OF THIS PROCOUNT WHEN MAKING APPLICATIONS BY AIR.

Wend Exercil - For agestific rates of application and instructions for control of various annual and personnal weeds, for this product used alone or in the following tank minimum, see the "Weeds Controlled" section of this label:

To control jobnsongrass using multiple directed or binadicast deep the top spray equipment, apply 1 quart of this product plus 0.5 to 1 percent regriging surfactant by total spray mining in 10 to 20 gaillous of water per acre. Ensure complete coverage.

for partial control of field bindweed, auply 1 quart of this product plus 0.5 to 1 percent portions surfacting by total spray volume in 3 to 20 gallons of water per sore. Apply when bindweed is actively growing and 12 inches or greater in length. Reduced performance may result if bindweed is under drought stress.

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Tank Mixtures

ROUNDUP® plus DEF® 6
ROUNDUP plus FOLEX™
ROUNDUP plus PREP™
ROUNDUP plus PREP plus DEF 6 or FOLEX

When applied as recommended under the conditions described, these tank mixtures control annual and perennial weeds listed on this label prior to the harvest of cotton. For application guidelines, precautions and use rates, refer to the OEF, Fotex and Prep tabets.

This product when tank-mixed with DEF 6 or Folex defoliants may provide enhancement of cotton leaf drop and regrowth inhibition.

Timing of Application—Apply this product or these tank mixtures for preharvest weed control after 60 percent of the cotton botts have opened.

NOTE: DO NOT APPLY TO CROPS GROWN FOR SEED.

Allow a minimum of 7 days between application and harvest. Do not feed or graze treated cotton forage or hay following preharvest applications.

TMDEF is a trademark of Mobey Chemical Corporation.

TMSolex and Prep are trademarks of Rhone-Poulenc, Inc.

TREE AND VINE CROPS

This product is recommended for weed control in established groves, vineyards, or orchards, or for site preparation prior to transplanting crops fisted in this section. Applications may be made with boom equipment, CDA.

shielded sprayers, hand-held and high-volume wands, lances, or orchard guns, or with wiper applicator equipment, except as directed in this section. See the "Application Equipment and Techniques" section of this label for specific information on use of equipment.

When applying this product, refer to the "Weeds Controlled" section of this label and to specific recommendatons in this section for rates to be used.

TON

Repeal treatments may be necessary to control weeds originating from underground parts of untreated weeds or from seeds. This product does not provide residual weed control. For subsequent weed control, use repeated applications of this product. Do not apply more than 10.6 quarts of this product per acre per year.

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE SOLUTION, SPRAY, DRIFT, OR MIST WITH FOLIAGE OR GREEN BARK OF TRUNK, BRANCHES, SUCKERS, FRUIT, OR OTHER PARTS OF TREES OR VINES, CONTACT OF THIS PRODUCT WITH OTHER THAN MATURED BROWN BARK CAN RESULT IN SERIOUS CROP DAMAGE.

AVOID PAINTING OUT STUMPS WITH THIS PRODUCT AS INJURY RESULTING FROM ROOT GRAFTING MAY OCCUR IN ADJACENT TREES.

Reduced control may result when applications are made to annual or perennial weeds that have been mowed, grazed or cut and have not been allowed to regrow to the recommended stage for treatment.

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For specific rates of applications and instructions, see the "Weeds Controlled" section of this label, and to specific recommendations which follow.

MEDDLES MANAGEMENT

FOR ANNUAL WEEDS IN MIDDLES BETWEEN ROWS OF TREE AND VINE CROPS

For cities crops heat uniformly between trees.

POUNDUP[©] ROUNDUP phas GOAL™

This product alone or in mixtures with Goal will control on suppress the annual weeds trained before.

Apply the recommended rates of this product, either alone or in mixtures with Goet, plus 0.5 to 1 parcent neo-ionic surfactant by spray valume in 3 to 10 gallors of water per acre. Apply when words are actively grawing and less than 6 inches in height or diameter. If weeks are under drought diress, it if gate prior to application. Reduced control may occur if weeds have been moved prior to application. Up to 48 fluid conces per acre of this product may be used to control wreads which have been moved, are stressed, or are growing in dense populations.

	MAZIMUM	RATE PE	R ACRE
WEED SPICIES	HEIGHTZ DIAMETER (INCHES)	OUNCES	SOAL O'AUTO OUNCES!
Rading Ras (1909) volg 100 Biographic, annual Pau annua	Ę,	W	•
Barrya by ans Lehmechian trus grill Chickweed, contone Sartiena media Red which Calandring chata	÷		•
Exhipses Options up Desham, flatters Lovers conservers Enseated, common Servers entgers In reference Lambagastren, care mon Common statum Prignand, statum Prignand, statum Regions in the lambagastren, care mon Lambagastren, care mon Desmand, statum Lambagastren, statum Lambagastren, makeum Lambagastren, makeum Lambagastrence Lambagast	6	1€ 0. 15 to 37 ♠	

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ACRES MANAGEMENT

weed species	MARRIEM HEIGHT/ DIAMETER (INCHES)	SOUNDEIS.	
Choeseword, common Mahra spp.	3	12 to 32 +	4 to 16
Cherseweed, common Maha sop. Filares' Erndium sop. Hocsen eed / Maressail Conyza canadensis Nettle, stinging Urtica dioies Purshane, common Portubac oleracea	6	16 to 32 +	4 to 16

^{*}Suppression only.

STRIPS

FOR ANNUAL AND PERENNIAL WEEDS IN STRIPS OF TREE AND VINE CROPS

TANK MIXTURES WITH RESIDUAL HERBICIDES

When applied as a tank mixture, this product provides control of the emerged annual weeds and control or suppression of emerged perennial weeds fisted in this label.

The following residual herbicides will provide preemegence control of those weeds listed in the individual product labels.

· · · · · · · · · · · · · · · · · · ·	
ROUNDUP® plus GOAL™ 1.6E	
ROUNDUP plus KARMEXTM DE	
ROUNDUP plus KROVAR™ I	
■ ROUNDUP plus KROVAR™ (1	
ROUNDUP plus SEMAZINE, PRINCEP CALIBERTY 90	-
ROUNDUP plus SIMAZINE 4L	
ROUNDUP plus SIMAZINE 80W	
■ ROUNDBP plus SOLICAM™ BOOF	
ROUNDUP plus SURFLAN TH AS	
ROUNDUP plus SURFLAN 75W	#
ROUNDUP plus SIMAZINE (80W, or 4L or PRINCEP CALIBER 90) plus SURFLAN (AS or 75W)	
■ ROUNDUP plus GOAL (1.6E) plus SURFLAN (AS or 75W)	#
ROUNDUP plus GOAL (1.5E) plus SIMAZINE (80W, or 41, or PRINCEP CALIBER 90)	
ROUNDUP plus GOAL (1.6E) plus SURFEAN (AS or 75M) plus SIMAZINE (80M, 4L, or PRINCEP CALIBER 90)	#
Do not apply these tank mixtures in Puerto Rico.	

^{**} The mixture of this product plus Goal is recommended when weeds are stressed or growing in dense populations.

When tenk-mixing with residual herbicodes, and an agriculturally approved nonlocic surfaction at 0.5 to 1 percent by volume of spray solution.

Refer to the individual product labels for specific crops, rates, geographical restrictions and precautionary statements.

Read and carefully observe the label claims, cautionary statements, rates and all other information on the labels of an oroducts.

Ordense is a tracement of E.I. duPont on Memburs and Company.

RECOMMENDED RATES

Anaual Meeds—Apply 1 to 5 quarts per auto of this product in these tank mixtures, itserates at the higher and of the recogniseeded range when weeds are stressed, growing in dense populations or are greater than 12 inches tall.

Perennial Weeds—Apply 1 pint to 5 quarts per ecre of this product in these bank minimum in control or suppress perennial weeds. Follow the recommendations in the "Weeds Controlled" section of this label for stage of growth and application rates for specific perennial weeds.

ROUNDUP® plus GOAL plus SIMAZINE/SURFIAN

This product plus low rates of Goal in three way or fourway mustures with simulate and yor Surfain will provide posternergence control of the weeds listed below.

Refer to the infinitual simazine and Sudlan labels for preemingence rates, weeds controlled, precautionary statements and other important information.

Apply these tank mixtures in 3 to 40 gallons of water. Add 0.5 to 1 occupil ponionic surfactant by total spray volume to the spray solution.

Apply 1 to \$ quarts over some of this product plus 4 to 48 fluid ounces per some of Grail plus tabeled rates of simazone and for Surflan to control the following weeds:

Buday, wild

Forceum lepoinum
Bluegrass, annual

Pos annua

Chessevard, common

Malva spp.
Chickmeed, common
Stellana media
Filatee*
Erodium spp.

Fleabure, flasiesi Conyra bonariensis Semodsel, common Senecia volgaris Horseweed i Marcestalli Conyra canaciensis Nettle, minging Velica trinca Pineapphenoed

Matricans matricariodes Rocket, Landon Sisrmbourn vio

Shepher aspurar Capsella bursa passoris Sorthestie, annual Sorthestie areaceus

"Use a minimum of 1.5 quarts of this product in these minimums

NOTE: This recommendation does not preclude the use of Goal in those minutes at higher, tabeled rates for preemergence weed control.

PERENNIAL GRASS SUPPRESSION ORCHARD FLOORS

When applied as directed, this product will suppress vegetative growth as indicated below.

Bahragrass

This product will provide significant inhibition of seedhead emergence and will suppress regetative growth for a period of approximately 45 days with a single application and approximately 120 days with sequential applications. Apply this product 1 to 2 weeks after full green-up or after moving to a uniform height of 3 to 4 inches. Applications must be made prior to seedhead emergence. Apply 6 fluid ounces of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 10 to 25 gallons of water per acre.

Sequential applications of this product plus nonimic surfactant may be made at approximately 45-day intervals to extend the period of seedhead and regetative growth suppression. For continued seedhead suppression, sequential applications must be made prior to seedhead emergence. Apply no more than 2 sequential applications per year. As a first sequential application, apply 4 fluid ounces of this product plus nonionic surfactant. A second sequential application of 2 to 4 fluid ounces may be made approximately 45 days after the last application.

Bermudzigrass.

For burndown, apply 1 to 2 quarts of this product plus 0.5 to 1 percent nonionic surfactant by total spray

returns in 3 to 20 gallons of water per acre. Use 1 quart of this product in 3 to 20 gallons of water per acre east of the Rocky Mountains. Use 1 to 2 quarts of this product in 3 to 10 gallons of water per acre west of the Rocky Mountains. Use this treatment only if reduction of the bermudagrass stand can be tolerated. When burndown is required prior to harvest, allow at least 21 days to ensure sufficient time for burndown to occur.

Suppression only (east of the Rocky Mountains) – Apply 6 to 16 fluid ounces of this product plus 0.5 to 1 percent nononic surfactan) by total spray volume in 3 to 20 gallons of water per acre no sooner than 1 to 2 weeks after full green-up. Mowing prior to application may occur provided a minimum beight of 3 inches is maintained. Rates of 6 to 10 fluid ounces of this product plus nonianic surfactant should be used in shaded conditions or where a tesser degree of suppression is desired. Sequential applications may be made when regrowth occurs and bermudagrass injury and stand reduction can be tolerated.

Suppression only (west of the Rocky Mountains) — Apply 16 fluid conces of this product plus 0.5 to 1 percent nontionic surfactant by lotal spray volume in 3 to 10 gallons of water per acre up to 6 inches in height and no sooner than 1 to 2 weeks after full green-up. Mowing prior to application may occur provided a minimum height of 3 inches is maintained. Sequential applications may be made when regrowth occurs and bermudagrass injury and stand reduction can be loterated.

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for suppression of tall fescue, tine fescue, orchardgrass and quartigrass amply 8 fluid ounces of this product plus 0.5 to 1 percent runionic surfactant by total spray volume in 10 to 20 gallons of water per acre. For best suppression, add ammonium suffate to the spray solution at a rate of 2 percent by weight or 17 pointils per 100 gallons of spray solution.

For suppression of Kentucky bluegrass covers, apply 5 fluid outcost of this product plus 0.5 to 1 percent achieves surfactant. On not add ammonium suifate.

for best results, more cook-season grass covers in the spring to even their height and apply the recommended rate of this product 3 to 4 days after moving. Avoid treating cook season grass covers under your graving conditions, such as drought stress (prip irrigation), diseason or insect damage.

LDW MOLENE APPLICATION (FLDRICA AND TEXAS)

For burndown or tentral of the weeds letted, apply the recommended rates of this panduct plus 0.5 is 1 pentant nonlinear surfactions by total spacy reliants in 3 to 30 gallons of water pro occas. Where weed foliage is dense, use 10 to 30 gallons of water per acre.

Angual Weeds

Realwest—Apply 2 to 3 quarts per acre of this product plus 17 pounds of ammonium sulfate per 100 gallons

of water piùs 0.5 to I percent nonionic surfactant by total spray rolume. Apply in 20 to 30 gallons of water oer acre when plants are actively growing. Use 2 quarts per acre when plants are fess then 8 inches tall and 3 quarts per acre when plants are greater than 8 inches. It goatweed is greater than 8 inches, the addition of Knorar II or Karmax may improve confital. The labeled rates for these residual products.

Read and corefully observe the label claims, continuous statements, rates and all other information do the Arova II and Karmen labels.

Parail Area

Apply when woods are extract growing and at the growth stages listed in the "Perennial Messis Controlled" section of this label. If perennial weeds are moved, allow weeds to regrow to the recommended stage of growth.

S = Suppression PC = Parliet control		Berndo Conpo	(11 /1):	
WEED SPECIES				RACRE
		2 q5		3 412
Gaineayau Gaineayau	E	•	PÛ	C
Texas and Florida Ridge	ß	Ç	C	C
Porida Flahroods	•	В	C	C
<u>रक्षाकृति</u>	₿	C	£	ŗ.
To pedagrass	2	•	PC	€

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TREE CROPS

Citrus*: citrae, grapefruit, kumquat, lemon, lane, crange, pummelo, tangeto, tangerine, tangers.

Nuts**; almond, chestauts, filbert, macadamia, peçan, pistachio, walnut.

Porte frait": apple, pear.

Stone Fruit***: apricoss, chemies, Aeclarines, Dines, peaches, plans/prones.

for chemies, any application equipment feated in this section may be used in all states.

For cition and olives, apply as a directed spray only.

Any application equipment tisted in this section may be used in applicate, notarines, practice, and plants/prones growing it Aricone, Celifornia, Editordo, Idaho, Kansas, Kentucky, New Yorsey, Hosha Daleta, Olizhoma, Oregon, Texas, Utah, and Washington, enterpt for peaches grown in the states specified in the following paragraph. In all other states use wiper equipment only.

For PEACHES grown in Alabama, Arhansas, Florida, Georgie, Looisiana, Missinsiopi, North Carolina, South Carolina, and Teamescae celly, apply with a shielded boom sprayer or shielded wiper application which prevents any contact of this product with the foliage or bark of trees. Apply no later than 90 days after first bloom, Applications made after this time may result in severe damage. Remore suchers and low hanging limbs at texts 10 days

prior to application. Avoid applications near trees with resent prening wounds to other mechanical urgury. Apply only frear Diess which have been granted in the sachard for 2 or more years. DETREME CARE MUST BE TAKEN TO ENSURE MD PART OF THE PEACH TREE IS CONTACTED.

Inopical Fruit accools, atempta", anocade", banana (atantains), bréadlimit", carristé", carambola", colfre""", dates", figs", guava, tabolicaba", sachinst", bagan", pales", mango", pacaya, passion limit", personnenst", sapodita, sacete, sourcep, segar applie", tamarand", usa. Allow a minimum of 1 day between less application and harvest el guava and papaga, in celles and banana, delay applications. 3 musting after transplanting to allow the new coffee or banana plant is become existingle.

NOTE:

- "Alice a finalment of \$4 days between last appli-Calien and §errest
- ""Nhow a uninament of 21 days between last application and harvest of these crops.
- ***Allow a minimum of 17 days between last application and harvest
- ****Allow a minimum of 28 days between last application and harvest.

And the second of the second o

VINE CROPS

Kiwi Fruit*

Grapes: Any variety of table, wine, or raisin grape may be treated with any equipment listed in this section.

in the northeast and Great Lakes regions, applications must be made prior to the end of bloom stage of grapes to avoid injury.

- *Applications should not be made when green shoots, canes, or foliage are in the soray zone.
- *Allow a minimum of 14 days between last application and harvest.

CALIFORNIA

This product has been approved by the U.S. Environmental Protection Agency and by the state of California for the uses, crops and sites listed in this label. With the exception of these items, this bootlet contains the material approved by California

These use conditions, crops and sites may not be treated with this product in California until approval is received:

- Cool season turf growth regulation.
- Escort tank mixtures.

ACCEPTED

.urm = 1 .pz.

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide EPA Reg. No. 5

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This product is protected by U.S. Pat. No. 4,405,531. Other patents cending. No Opena granted audio any non-U.S. patentist.

This product has been approved for use in California sacrest as stated otherwise on page \$21.

EPA Rep. No. 524 405

898.07-000.01753

in case of an emergency moditing this product. Call Collect, day on might, (314) 694-8000

SOMUNSANTO COMPANY 1992

MONSANTO COMPANY AGRICULTURAL PRODUCTS 51. LOUIS, MISSOURI, 63167 U.S.A.

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Roundup

Complete Directions for Use

EPA Reg. No. 524-445

898.07-000.01/53

Monsanto

Monsanto Company Suite 1100 700 14th Street, N.W. Washington, D.C. 20005

March 10, 1992

Office of Pesticide Programs - H7504C Document Processing Desk U.S. Environmental Protection Agency Room 226A, Crystal Mall #2 1921 Jefferson Davis Highway Arlington, Virginia 22202

Attention: Mr. Robert J. Taylor

Product Manager (25)

Subject: MON-35085 Herbicide (EPA Reg. No. 524-445)

Addition of Brand Name / Submission of Final Printed Labels

Dear Sir:

Monsanto requests that the following brand name be added to EPA Reg. No. 524-445, effective July 1, 1992:

Roundup®, including Roundup in the C-Pak Container

Enclosed are five (5) copies of the final printed label booklet (version 1992-2: 898.07-000.01/53) for Roundup herbicide for your approval and stamping. This label is identical to the MON-35085 herbicide label that was approved by the Agency on March 18, 1991, with the following minor changes:

- 1. In the Noncrop section, several reformatting changes have been made. These minor changes are identical to the changes previously made to the label booklet for EPA Reg. No. 524-308.
- ⁷2. The following **Noncrop** sections were omitted from this particular printing:
 - Tank Mixtures for Forestry Site Preparations
 - Silvicultural Sites and Rights-of-Way

If you have any questions regarding this request, please contact Dr. Russ Schneider or me.

Sincerely,

Shula a Schuette Sheila A. Schuette, Ph.D. Senior Registration Specialist

(314) 694-7248

cc: R.P. Schneider D.P. Ward R.G. Danhaus

S.D. Schuette

	United States Environs	nental Prote	ction Agency								
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MON-35085 Herbi	cide		<u> </u>								
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EDA File Com.

PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to average 0.85 hour per response, including time for reviewing instructions, searching existing data sources. gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

INSTRUCTIONS: This form is to be used for all applications for new registration, end use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling;
- 5. Three copies of any data submitted;
- Authorization letter where applicable;
- 7. Matrices where applicable.

Submission of Labeling - Labeling"should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper or a mockup of the proposed label. If prepared as a mockup, it should be constructed in such a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 8.5 x 11 inch paper for submission. Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block:A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections 1, III, and IV must be completed by the applicant. For applications submitted in connection with amended registration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant. Block A - Check the appropriate action for which you are submitting this form.

 ${ t SECTION_I}$ - This section must be completed, as applicable, for all-registration actions...

- 1. Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment, if your product is registered, insert the Product Mumber.
- EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- Proposed Classification Specify the proposed classification of this product.
- 4. Product Name---Enter-the complete product name of this pesticide as it-will-appear-on the label. The name must be 🕟 specific to this product only. Duplication of names is not permitted among products of the same company. Do not include: any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 6. Expedited Review FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other pesticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

to be the second SECTION II: - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration:and <u>for</u> any other action that pertains to a <u>specific</u> EPA-registered product. This section is not to be used for a new application for registration.

1. Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; general label revision of use directions." Attach a separate page if additional space is needed.

SECTION III (Packaging and Container Information) - This Section must be completed for all ! applications submitted in connection with new registration or applicable amendments.

- 1. Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types. Indicate the size of the individual packets and number per retail container.
- Type of Retail Container Indicate type of container in which product will be marketed.
- 3. Location of Net Contents Specify the net contents of all retail containers for your product.
- Size(s) of Retail Container Specify the net contents of all retail containers for your product.
- 5. Location of Use Directions Indicate the location of the use directions for your product.
- Manner in which label is affixed to product Indicate the method product label is attached to retail container.

0.000SECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "me-too, " reregistration, letc.

1-5. Self-explanatory.

6. EPA Use Only.

Applicant copy of the following the state of
.U. d9 , 950 to 10,000 consequence 1 10,125 to 10,100 t

JUL 29 1991

Dr. Sheila A. Schuatte Monsanto Company 700 14th Street, N.W. Suite 1100 Washington, D.C. 20005

Dear Dr. Schuatte:

Subject: MON-35085 RT Herbicide (alternate formulation)

TPA Registration No. 524-445 Your letter dated June 4, 1991

The scientific review and evaluation of the alternate formulation submitted above have been completed. The requested alternate fermulation is acceptable and our records have been modified accordingly.

Sincerely,

Vulte Keerellen Robert J. Taylor, PM-25 Pungicide-Herbicide Branch Registration Division (H7505C)

CONCURRENCES LOBI

Form 1320-1 (12-70)

Inert ingredient information may be entitled to confidential treatment

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EPA Form #570-13 (2-75)

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524-445	June 4, 1	991	Robert J. Taylor (25)	X General ted
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Monsanto

Monsanto Company Suite 1100 700 14th Street, N.W. Washington, D.C. 20005

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June 4, 1991

Document Processing Center (AMEND) Office of Pesticide Programs - H7504C U.S. Environmental Protection Agency 1921 Jefferson Davis Highway Crystal Mall #2, Room 226A Arlington, Virginia 22202

Attention: Mr. Robert J. Taylor

Product Manager (25)

Subject:

4

MON-35085 RT Herbicide (EPA Reg. No. 524-445)

Request for Alternate Formulation/Submission of Alternate CSF

Dear Sir:

On March 18, 1991, the Agency approved MON-35085 RT as an additional brand name for MON-35085. MON-35085 RT will be selectively marketed in agricultural areas that practice reduced or limited tillage for moisture and soil conservation. In order to differentiate MON-35085 RT from MON-35085, Monsanto now requests that an alternate formulation be approved. This alternate formulation is identical to that which was approved for MON-35085, except that a small amount of has been replaced with all

A Confidential Statement of Formula, which contains is attached for your review and approval.

An Application for Pesticide Amendment and Certification with Respect to Citation of Data and General Offer to Pay are also enclosed.

Inert ingredient information may be entitled to confidential treatment

If you have any questions regarding this request, please contact Dr. Kevin Cannon or me.

Sincerely,

Sheila A. Schuette, Ph.D.

Sheila A. Schuette, Ph.D. Senior Registration Specialist

(314) 694-7248

cc: R.P. Schneider

K.F. Cannon

R.W. Street

D.E. Wolfersberger

CERTIFICATION WITH RESPECT TO CITATION OF DATA

EPA File Symbol/Reg. No. 524-445 Date of Application June 4, 1991
Name of Product MON-35085 RT
Applicant's Name and Address Monsanto Company
Suite 1100
700 14th Street, N.W.
Washington, D.C. 20005
1. This application is supported by all data submitted or cited in application. In addition, if cite-all options are indicated, this application is supported by all data in the Agency's files that concern the properties effects of this product or of any other product that is identical substantially similar, and that is one of the types of data that would required to be submitted if this application sought the initial registration approach of identical or similar composition and intended uses under that requirements in effect on the date of approval of this application.
 I certify that, for each study cited in support of this application registration that is an exclusive use study, I have obtained the write permission of the original data submitter to cite that study. I certify that, for each study cited in support of this application registration that is not an exclusive use study:
I have obtained the written permission of the original data submitter cite that study; $\underline{\text{or}}$
I have notified in writing the companies who have submitted data I have cited to support those applications and have offered to: (a) I compensation for those data in accordance with section 3(c)(1)(D) 3(c)(2)(D) of the Federal Insecticide, Fungicide and Rodenticide Act; (b) Commence negotiations to determine which data are subject to compensation requirements of FIFRA and the amount and terms of compensation, if any. The companies I have notified are: (Check one)
[] All companies listed on the Pesticide Data Submitters List for all active ingredients contained in my product (Cite-all method or cite-all option under Selective Method). (Also sign the General Offer to Pay Statement below).
[X] Monsanto Company has submitted the studies which I have cited (Selective Method).
Date June 4, 1991 Signature Stula Oscheets
Title Senior Registration Specialist
General Offer to Pay: I hereby offer and agree to pay compensation to other persons, with regard to the approval of this application, to the extent required by FIFRA sec. 3(c)(1)(D) and 3(c)(2)(D).
Date June 4, 1991 Signature Shele Ophelield
Title <u>Senior Registration Specialist</u>

Dr. Sheila A. Schuette Monsanto Company 700 14th Street NW., Suite 1100 Washington, DC 20005

Dear Dr. Schuette:

Subject: MON-35085 (Control of Canada Thistle in Onio)
EPA Registration No. 524-445
Your Application Dated Pebruary 4, 1991

The labeling referred to above submitted in connection with registration under the Federal Insecticide, Pungicide, and Rodenticide Act as amended is acceptable. Please submit five (5) copies of your final printed labeling before you release the product for shipment. A stamped copy of labeling is enclosed for your records.

Sincerely yours,

Robert J. Taylor Product Manager (25) Fungicide-Herbicide Branch Registration Division (H7505C)

Enclosure

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Monsanto

Monsanto Company Suite 1100 700 14th Street, N.W. Washington, D.C. 20005

February 14, 1991

Document Processing Center (Amend) Office of Pesticide Programs - H7504C U.S. Environmental Protection Agency 1921 Jefferson Davis Highway Crystal Mall #2, Room 226A Arlington, Virginia 22202

Attention:

Mr. Robert J. Taylor

Product Manager (25)

Subject:

MON-35085 Herbicide (EPA Reg. No. 524-445)

Supplemental Label: Control of Canada Thistle in Ohio

Dear Sir:

Enclosed for Agency review and approval are five (5) copies of a supplemental MON-35085 herbicide label. This supplemental label provides more specific guidance on the use of MON-35085 herbicide for the control of Canada Thistle in Ohio. The use instructions include details on the use of surfactants, ammonium sulfate, and timing of application.

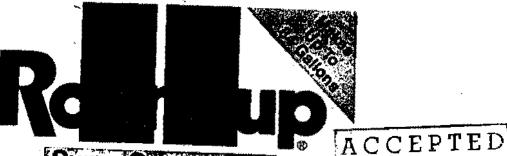
An Application for Pesticide Amendment and Certification with Respect to Citation of Data and General Offer to Pay are enclosed.

If you have any questions regarding this request, please contact Dr. Kevin Cannon or me.

Sincerely,

Sheets & Selveto Sheila A. Schuette, Ph.D. Senior Registration Specialist

(314)694-7248



Super Concertification

by Monsanto

Grass & Weed Killer

- * COVERS 25,200 SQUARE FEET * DOES NOT HAVE SOIL ACTIVITY
- * KILLS LABELED ANNUAL AND PERENNIAL CRASSES, WEEDS AND SEDGES
- SYSTEMIC ACTION KILLS INDITS AND ALL
- * SUITABLE FOR USE ARCUMO FLOWER BECS, TREES, SHRUBS, FERICES AND DRIVEWAYS
- * USE TO PREPARE GARDON SITES
- * MIX 3 TO 5 TABLESPOONS (1% TO 2% CC) PER GALLON

Read the entire tabel before using this product. Use only according to label instructions.

Marie Co.

NOTICE: BUYER ASSUMES ALL RESPONSIBILITY FOR SAFETY AND USE NOT IN ACCORDANCE WITH DIRECT HONS IF THESE TERMS ARE NOT ACCEPTABLE. RETURN AT ONCE UNOPENED

Keep out of reach of children.

MINE INCREDITAL

Chamber is constangually by house in the laim of its non-oppliance will ... (10%

NET 1 GAL

897.17-000.32-1

Carefully read and tollow detailed instructions in pumpillal. PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals

Keep out of reach of children.

WARNING!

CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY. HARMFUL IF INHALED. On not got in eyes or breathe spray mist or get in or on clothing. Wear goggles, lace whield or safety glasses, Wash thoroughly with soop and water after handling. Remove contaminated clothing and wash belove reuse.

FERST AND, If IM EYES, hold melids open and flush with plenty of water, Get medical artention

If INDUALED, someone vection to break air. If not breathing, give artificial respiration, preferably mouth is mouth. Get medical attention,

If SMALECATED, mink promptly a large quantity of milk, egg whites, or gelatin solution. If these are not southhis drink large quantains of water. Get medical attention.

to dana of an amergency involving this gradual, Cutt Collect, day or night, (314) 694-4000. "

Environmental Hazards

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Physical or Chemical Hazards.

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(See additional Precisional inside Parallett)

Storage and Disposat

Do not contamonate water, bood, feed or need by browne or disposal.

STORAGE: Store this product in its uniquest container and in a secured attract in the

In case of SPILL or LEAK, which up with paper barrels and discout in track.

DISPOSAL: To dispose of enessed groduct, seeks-ely make trigical continues in mental legacy of newspaper and diseard in trath.

Emphy container retains sepon and product residue, Queene all tatatest calculation and contained is discarded.

Ou not reuse container. Rinse tharoughly before discarring in teach.

This product is protected by U.S. Patent No. 4,405,531. Other parents generally, No fearest generalist under any non-U.S. gatent(s).

* Trademark of Monsante Company

OMONSANTO COMPANY 1992 MENSANTO EGMPANY + AGRICULTURAL PRODUCTS + ST. LCDIS, MISSCHIR 63167 U.S.A.

EPA Est. 52444-1

EPA Ree, No. 524-415

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EPA RECENO.

Under the Federal Insecticide.

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KEEP PROPUE AND PETS OFF TREATED AREAS UNTIL SPRAY SOLU-

DOMESTIC ANIMALS: This product is considered to be relatively nontext to dogs and other domestic animals. However, expession of this product or large amounts of resulty system systems may result in isomporary pastroints; intitiation (working, distribut, cocic, etc.) If such symptoms are observed, provide the animal enth plenty of fluids to prevent dehydration, Call a veterinarian it symptoms persist for more than 24 hours.

ADDIT OHAL PRECAUTIONS

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN OALVANIED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or agray solutions of this product react with such containers and fanks to produce prooping as which may form a bignly combustible gas misture. This gas mixture could flash or asplode, causing serious personal fully. If syniled by popen flams, gards, wildler's borch, lighted cignalities or bar ignition source.

DIRECTIONS FOR USE.

If is a violation of Federal law to use this product in any manner inconsistent with its labeling.

Roundup is a nonselective herbicide that is district and applied to the foliage of actively growing weeds as a spot or broadcast application. In a sbootbed by the leaves and moves introdynout the stem and mote to control the entire plant. Visible symptoms may require a week to thore to appear, with our other sources for procuring in 2 of a levels. Symptoms are specially eliting and yellowing of the sprayed plant followed by deterioration of both shoots and mote. This product has no nerbicided schivily in the soil and will not wash or leach to sheet nearby regetation.

PROOF OR PURCIASI This product controls many weeds around buildings, vacani lots, storage and recreational areas, gravel or ground bars much, shade trees, commendate and shrups, abong lences, sidewalls, driveways and patios; and prior to planting furgrasses, etrops, flower beds or vegotables listed on the label. When used as a book treatment is terms, all weighting contacted will be demanded.

THIS PRODUCT CAN INJURE OR DESTROY ALL YEQUIATION CONTACT. ED ANDID SPRAY ORIET CONTACT WITH DESTRABLE LAWN GRASSES, FLOWERS, YEQUIATED, SHAUBS OR TREES DO NOT CONTACT CREEN BARK OF TREES OR SHRUBS, IF DESTRABLE VEGETATION IS CONTACTED, WASH IMMEDIATELY WITH WATER.

For more product information, call toil-free 1-800-225-2883 J

Storago and Disposal

Do not contaminate water, food, faed or seed by storage or disposal. STORAGE:

Store this product in its original container and in a secured storage area. In case of SPILL or LEAK, soak up with paper towers and discard in tresh.

To dispose of unused product, socurely wrap original container in several layers of newspaper and discard in trash.

Empty container retains vapor and product residue. Observe all labeled safeguards until container is discarded,

Do not reuse container. Rinse thoroughly before discarding in tresh.

WEEDS CONTROLLED

When applied as recommended under the conditions described, Roundup controls many common weeds including the following:

Annuale
Barnyalograss
Bluegrass, annual
Chickwood
Crabgrass

Lettuce, prickly Mustard, tansy Pannyciesa, held Pigwaed, redroot, amouth

2

Fortall trincath
Lambtevarier, common Represed, common

Personish Bahisgrass Bermudagrass Bindweed, lield Sluegrass, Kemucky Bromegrass, amooth

Dellisgrass
Dandolion
Fescue species
Fescue, tall
Johnsongrass
Nutsedge; purple,
vellow

Quackgrass
Ryegress, perennial
Thistle, Canada
Timothy
Vasoygrass

Orchardorasa

Brush Alder Blackberry Cherry

EMerbern

Haneysuckie Kudzu Oak Polson kry Polson Oak

Respherry Rose, multiflore Sumac Trumpetcraeper Willow

MIXING AND SPRAYING

On not apply this product through any type of irrigation system.

Hand-held Sprayers-Add 1-1/2 to 2-1/2 fluid ounces (3 to 5 tbsp.) of this product to 1 gallon of cloen water. Use the higher recommended note for control of listed percentals and brush. Use pump-up-type or hand-frigger-type sprayers. USE OF HOSE-END SPRAYERS OR SPRINKLERIYPE DEVICES MAY RESULT IN POOR ANDOR ERRATIC RESULTS.

Ensure uniform and complete spray coverage, but do not spray plants to the point that the spray solution runs off, Use a coarse spray. Do not spray during windy conditions, as spray drift may cause damage to any vegetation contacted.

WHEN TO APPLY

Apply to vigorously growing plants. Apply to annual weeds anytime after emergence. For best results, apply to perennial weeds after seedheads, flowers or berries appear. On weedy brush or trees, apply after feaves have fully expanded. Applications made at less than the recommended stage of growth may result in reduced control. After moving, clipping or tilling, allow weeds to regrow to the recommended growth stage before spraying this product.

Rainfall or watering within 8 hours after application can wash the product on plant loidage which may require retreatment. Delay moving, clipping, illing, planting or sodding of treated sease he less if days after application. This afforms time for this product to more within the plant for most affoctive results. SINCE THIS PRIDUCT DOES NOT WORK IN SOIL, RETREATMENTS WILL BE NECESSARY TO CONTROL NEW WEEDS EMERGING

Our application will control most woods listed. Symptoms on cartall lough personnial woods and woody brush and tree species my be slow to develop. If control te not achieved within 4 week, allow time for the spreyed woods to regrow and make a repeat equilication. In some cases, co-ried of woody brush and trees treated it. he fall may not be fully epigerant until the following season.

U"WHIREHOVATION

Bit is results are obtained when at least one moving is skipped prior to reatment. This provides more leaf surface to intercept the soray. For arous whom renovation and reacoding is desired, through larger everage of all existing vegetation is necessary. Optay planting or sidding of treated areas for at least 7 days after application.

CRNAMENTALS

Any ornamontal spacies may be planted in treated areas ? days or note ofter explication. Apply this product as recommended to control undesimble explication. Apply this product as recommended to explicit undesimble explication explicitly explicitly explicitly so that are desirable plants. To avoid liquity on distinction plants, prevent apray or drift contact with follage, stoms or green bank. Do not apray into, or over the top of, growing or camentals.

TREES (Apple, Citrus, Nut, Poar) AND GRAPEVINES Apply this product to control understrable plants growing around these trees and whoes. Spray contact, other than with mature back of the might trunk, can higher the tree or vine. Allow 21 days between application and harvest.

Ryograss, Annual

Sandbur, field

Southistic

Shephardapuras

BERRIES, SMALL FRUIT & VEGETABLE GARGERS

The historing vagolables may be planted in Irested Aibas 7 days or mais sitor application: asperagus, beans, beet greens, beets, brackberry, blueberry, boyeanberry, brackberry, subsequences, boyeanberry, brackberry, subsequences, colores, ### CLEANING EQUIPMENT

Tiple-class spray work and fileth all aproper companients with which in remove residues of this product, After thorough elebring, equipmakit may be used to apply other products.

This phop is intentionally set black.

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Roundup* Super Concentrate Grass & Weed Killer

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> REFORMULATION OR REPACKAGING. IS PROHIBITED.

*Contains 480 grams per litte or 4 pources per U.S. gallon of glyphodelin. Neighosanonomethrijgheine, in the torm of its isopropriorities aus.

This product is presented by U.S. Peters to 4.405,521; Other policing pumping No Scottes protect under any non-U.S. pumping.

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EPA Form 8570-1 (Rev. 4-88) Previous editions are obsolete.

CERTIFICATION WITH RESPECT TO CITATION OF DATA

Date of Application February 14, 19 Name of Product MON-35085 Herbicide Applicant's Name and Address Monsanto Company Suite 1100 700 14th Street, N.W. Washington, D.C. 20005 1. This application is supported by all data submitted or cited in the application. In addition, if cite-all options are indicated, this application is supported by all data in that concern the properties effects of this product or of any other product that is identical essubstantially similar, and that is one of the types of data that would required to be submitted if this application sought the initial registration are application that are quirements in effect on the date of approval of this application. 2. I certify that, for each study cited in support of this application for registration that is an exclusive use study, I have obtained the writtenermission of the original data submitter to cite that study. 3. I certify that, for each study cited in support of this application for registration that is not an exclusive use study. I have obtained the writtenermission of the original data submitter to cite that study. I have obtained the written permission of the original data submitter cited to support those applications and have offered to: (a) For compensation for those data in accordance with section 3(c) (1) (D) all 3(c) (2) (D) of the Federal Insecticitie, Fungicide and Redenticide Act; as (b) Commence negotiations to determine which data are subject to the compensation requirements of FIFRA and the amount and terms of compensation due, if any. The companies I have notified are: (Check one) (3) All companies listed on the Pesticide Data Submitters List for all active ingredients contained in my product (cite-all method or cite-all option under Selective Method). (Also sign the General Offer to Pay: I hereby offer and agree to pay compensation, to oth persons, with regard to the approval of this application, to the extent require by FIFRA sec. 3(c) (1) (D) and 3(c) (2) (D). Date February 14, 1991 Signature Title Senior Re	י גמש	Eile Combal/Ban N	50/ // E
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Title Senior Registration Specialist 107	Date	February 14, 1991	Signature Shela a School 3/14/9,
			Title Senior Registration Specialist 107

SUPPLEMENTAL LABELING

READ AND FOLLOW THE ENTIRE LABEL FOR MON-35085 HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label for MON-35085 herbicide and this supplement.

MON-35085 Herbicide by Monsanto

EPA Reg. No. 524-445

FOR DISTRIBUTION AND USE ONLY WITHIN OHIO.

FOR CONTROL OF CANADA THISTLE.

Keep out of reach of children.

WARNING!

In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with the labeling.

This supplemental labeling and the label booklet for MON-35085 must be in the possession of the user at the time of herbicide application.

AVOID CONTACT WITH FOLIAGE, GREEN STEMS, OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, SINCE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION", "APPLICATION EQUIPMENT AND TECHNIQUES" and "CROPPING SYSTEMS" sections of the label booklet for MON-35085 for essential product information.

Under the Federal Insecticide, Pungicide, and Rodenticide Act, as amended, for the pesticide registered under the Reg. No. 1445

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RECOMMENDATIONS.

FOR CONTROL:

Apply 1 quart per acre of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 5 to 10 gallons of water per acre.

The addition of ammonium sulfate at the rate of 17 pounds per 100 gallons of spray solution is recommended for enhanced performance under stress conditions.

In the spring, apply to actively growing thistles when most are at or beyond the bud stage of growth.

After harvest, mowing or tillage in the late summer or fall, allow at least 4 weeks for initiation of active growth. Rosette size must be a minimum of 6 inches in diameter before treating.

Applications can be made in the fall as long as leaves are still green, and plants are actively growing at the time of application.

Allow 3 or more days after application before tillage. For best results, till the area within 14 days after application.

FOR SUPPRESSION WITH SPRING APPLICATIONS:

Apply 1 pint to 1 quart of this product per acre plus 0.5 to 1 percent nonionic surfactant by total spray volume in 5 to 10 gallons of water per acre. Apply to actively growing plants that are at least 8 inches tall.

The addition of ammonium sulfate at the rate of 17 pounds per 100 gallons of spray solution is recommended for enhanced performance under stress conditions.

For improved burndown and to control other broadleaf weeds, mix this product with 0.5 pound a.i. 2,4-D per acre. Applications of 2,4-D must be made at least 7 days prior to planting corn and at least 30 days prior to planting soybeans.

Allow 3 or more days after application before tillage. A subsequent cultivation may enhance control.

THE RESIDENCE OF THE PROPERTY OF THE PARTY O

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label booklet for MON-35085 before using this product. Those terms apply to this supplemental labeling and if those terms are not acceptable, return the product unopened at once.

@MONSANTO COMPANY 1991

MAP-3171

MONSANTO COMPANY
AGRICULTURAL PRODUCTS
ST. LOUIS, MISSOURI 63167

Dr. Sheila A. Schuette Monsanto Company 700 14th Street NW., Suite 1100 Washington, DC 20005

Dear Dr. Schuette:

Subject: MON-35085 Herbicide (Weed Control in Passion Fruit)
EPA Registration No. 524-445
Your Application Dated February 14, 1991

The amendment referred to above, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Function and Rodenticide Act. FIFEA) is acceptable provided that you

- 1. Submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) and section 4 when the Agency requires all registrants of similar products to submit such data.
- Submit five (5) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

Robert J. Taylor
Product Manager (25)
Fungicide-Herbicide Branch
Registration Division (H7505C)

Enclosure

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54426:I:CR-43:Walters:L25-1:KEVRIC:03/04/91:13/08/91:TK:DD

CONCURRENCES							
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DATE 3/18/91							

EPA Form 1320-1 (12-70)

OFFICIAL FILE CO

Monsanto

MONSANTO AGRICULTURAL COMPANY

800 N, Eindbergh Boulevard St. Louis, Missouri 63167 Phone: (314) 694-1000

February 14, 1991

Document Processing Center (Amend) Office of Pesticide Programs - H7504C U.S. Environmental Protection Agency 1921 Jefferson Davis Highway Crystal Mall #2, Room 226A Arlington, Virginia 22202

Attention:

Mr. Robert J. Taylor

Product Manager (25)

Subject:

MON-35085 Herbicide (EPA Reg. No. 524-445)

Supplemental Label: Weed Control in Passion Fruit

Dear Sir:

Enclosed for Agency review and approval are five (5) copies of a supplemental label for MON-35085 herbicide use in passion fruit. The tolerance for this crop was established and published in the 27 November 1989 Federal Register (Vol. 54, No. 226, pp. 48743-4) and is represented as a tropical fruit. Directions for use are included in this supplemental label.

An Application for Pesticide Amendment and Certification with Respect to Citation of Data and General Offer to Pay are enclosed.

If you have any questions regarding this request, please contact Dr. Kevin Cannon or me.

Sincerely,

Sheila A. Schuette, Ph.D.

Shila a Selveto

Senior Registration Specialist

(314) 694-7248

SUPPLEMENTAL LABELING

READ AND FOLLOW THE ENTIRE LABEL FOR MON-35085 HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label for MON-35085 herbicide and this supplement.

MON-35085 **Herbicide by Monsanto

EPA Reg. No. 524-445

FOR DISTRIBUTION AND USE ONLY WITHIN HAWAII.
FOR NONSELECTIVE WEED CONTROL IN AND AROUND
PASSION FRUIT.

Keep out of reach of children.

WARNING!

In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with the labeling.

This supplemental labeling and the label booklet for MON-35085 must be in the possession of the user at the time of herbicide application.

AVOID CONTACT WITH FOLIAGE, GREEN STEMS, OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, SINCE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION", "APPLICATION EQUIPMENT AND TECHNIQUES" and "WEEDS CONTROLLED" sections of the label booklet for MCN-35085 for essential product information.

RECOMMENDATIONS

This product is recommended for weed control in and around established passion fruit, or for site preparation prior to planting or transplanting. Applications may be made with boom

ACCEPTED

8 :

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No.

and a first that the contract of

equipment; CDA, shielded sprayers, hand-held and high-volume wands, lances, orchard guns or with wiper applicator equipment.

When applying this product refer to the "Weeds Controlled" section of the label booklet for MON-35085 for weeds controlled and specific rates to be used.

Allow a minimum of 14 days between last application and harvest.

Annual Weed Control--Apply 8 to 48 fluid ounces of this product per acre plus 0.5 to 1 percent nonionic surfactant in 3 to 10 gallons of water per acre as directed in the "Low-Volume Broadcast Application" section of the label booklet for MON-35085.

When using water volumes of 10 to 40 gallons per acre, apply 1 quart per acre if annual weeds are less than 6 inches tall. If weeds are greater than 6 inches tall, use 1.5 quarts of this product per acre.

Perennial Weed Control--Apply 3 to 5 quarts of this product per acre. Apply when weeds are actively growing and most have reached the early head or early bud stage of growth. Allow 7 or more days after application before mowing or tillage operations.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label booklet for MON-35085 before using this product. Those terms apply to this supplemental labeling and if those terms are not acceptable, return the product unopened at once.

©MONSANTO COMPANY 1991

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MAP-3167

MONSANTO COMPANY AGRICULTURAL PRODUCTS ST. LOUIS, MISSOURI 63167

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Specialist

5. Date Signed

Sheila A. Schuette, Ph.D.

4. Typed Name

Paperwork Reduction Act Notice and Instructions

Paperwork Reduction Act Notice

Public reporting burden for this collection of information is estimated to average of 0.85 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

Instructions

General

This form is to be used for all applications for new and amended registrations for posticide products.

In order to process an application for new registration submitted on this form, the following material must accompany the application:

- Offer to Pay Statement (EPA Form 8570-27, -28, -29). (If not exempted by 40 CFR 162.9-1(b).)
- 2. Confidential Statement of Formula (EPA Form 8570-4).
- 3. Five copies of draft labeling.
- 4. Three copies of any data submitted.

Submission of Labeling - Labeling should first be submitted in the form of draft tabels with all applications for new registration. Such draft tabels may be in the form of typed tabel text on $8\ 1/2\ x$ 11 inch paper or as a mockup of the proposed tabel. If prepared as a mockup it should be constructed in such a way as to facilitate storage in an $8\ 1/2\ x$ 11 inch file. Mockup tabels significantly smaller than $8\ 1/2\ x$ 11 inches should be mounted on $8\ 1/2\ x$ 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

Specific

Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Section I, III, and IV must be completed by the applicant. For applications submitted in connection with amended registration actions, Section I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

Section I - This Section must be completed for both Registration and Amended Registration actions.

- Company/Product Number Insert your company number, if one has been assigned. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If application is for an amendment, insert the registration number of the product.
- 2. Pate Hill in the appropriate date.
- 3. Product Manager If Lnown, fift in the name and number of the Product Manager.
- 4. Proposed Classification Specify the proposed classification for this product.
- 5. Name and Address of Applicant. The name of the firm or person and address shown in your application is the person or tirm so whom registration will be issued. If you are acting in solali of another party, you must submit authorization from that party to act for them in registration matters.

An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.

6. Product Name - Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.

Amendment Information

Section II - This Section must be completed for all applications submitted in connection with Amended Registration.

 Subject of Amendment - Check the appropriate block, and provide a brief explanation of the purpose(s) for the amendment, such as: "the addition of a site, pest, or crop"; "to change inert ingredient"; "general label revisions of precautionary statements," etc.

Packaging and Container Information

Section III - This Section must be completed for all applications submitted in connection with New Registration.

- Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types. Indicate the size of the individual packets and number per retail container.
- Type of Retail Container Indicate type of container in which product will be marketed.
- Location of Net Contents Specify the not contents of all retail containers for your product.
- Size(s) of Retail Container Specify the net contents of all retail containers for your product.
- Location of Use Directions Indicate the location of the use directions for your product.
- Manner in which label is affixed to product Indicate the method product labeling is attached to retail container.

Contact Point

Section IV - This Section must be completed for all Registration and Amended Registration applications.

- 1-5, Self-explanatory.
- 6. EPA Use Only.

EPA Form 8570-1 (Rev. 9-88)

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CERTIFICATION WITH RESPECT TO CITATION OF DATA
EPA File Symbol/Reg. No. 524-445 Date of Application February 14, 1993
Name of Product MON-35085 Herbicide
Applicant's Name and Address Monsanto Company
Suite 1100
700 14th Street, N.W.
Washington, D.C. 20005
1. This application is supported by all data submitted or cited in the application. In addition, if cite-all options are indicated, this application is supported by all data in the Agency's files that concern the properties or effects of this product or of any other product that is identical or substantially similar, and that is one of the types of data that would be required to be submitted if this application sought the initial registration of a product of identical or similar composition and intended uses under the data requirements in effect on the date of approval of this application.
2. I certify that, for each study cited in support of this application for registration that is an exclusive use study, I have obtained the writter permission of the original data submitter to cite that study.
3.; I certify that, for each study cited in support of this application for registration that is <u>not</u> an exclusive use study:
I have obtained the written permission of the original data submitter to cite that study; or
I have notified in writing the companies who have submitted data I have cited to support those applications and have offered to: (a) Pay compensation for those data in accordance with section 3(c)(1)(0) and 3(c)(2)(D) of the Federal Insecticide, Fungicide and Rodenticide Act; and (b) Commence negotiations to determine which data are subject to the compensation requirements of FIFRA and the amount and terms of compensation due, if any. The companies I have notified are: (Check one)
[] All companies listed on the Pesticide Data Submitters List for all active ingredients contained in my product (Cite-all method or cite-all option under Selective Method). (<u>Also sign</u> the General Offer to Pay Statement below):
[X] Monsanto Company has submitted the studies which I have cited (Selective Method).
Pate February 14, 1991 Signature Skula (Suluel 2/14/91
Title Senior Registration Specialist
<u>seneral Offer to Pay:</u> I hereby offer and agree to pay compensation to other ersons, with regard to the approval of this application, to the extent required by FIFRA sec. 3(c)(1)(D) and 3(c)(2)(D).
ate February 14, 1991 Signature Skule (School 2/14/91
Title Senior Registration Specialist

The state of the s

Dr. Sheila A. Schuette Monsanto Company 700 14th Street NW., Suite 1100 Washington, DC 20005

Dear Dr. Schuette:

Subject: MON-35085 (Add Several Crop and Other Changes)

EPA Registration No. 524-445

Your Letter Dated February 14, 1991

The amendment referred to above, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, rungicide, and Rodenticide Act (FIFRA), is acceptable provided that you

- Submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) and section 4 when the Agency requires all registrants of smallar products to submit such data.
- 2. Submit five (5) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with PIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

Robert J. Taylor Product Manager (25) Pungicide-Herbicide Branch Registration Division (N7505C)

Enclosure 54426:I:CR-43:Walters:L25-1:KEVRIC:03/04/91:13/08/91:TK:DD

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Monsanto

Monsanto Company Suite 1100 700 14th Street, N.W. Washington, D.C. 20005

February 14, 1991

Document Processing Center (AMEND)
Office of Pesticide Programs - H7504C
U.S. Environmental Protection Agency
1921 Jefferson Davis Highway
Crystal Mall #2, Room 226A
Arlington, Virginia 22202

Attention:

Mr. Robert J. Taylor

Product Manager (25)

Subject:

4 1

MON-35085 Herbicide (EPA Reg. No. 524-445)

Label Amendments

Dear Sir:

Enclosed for Agency review and approval are five (5) copies of an amended MON-35085 herbicide label. In addition to several minor wording changes that do not affect product use, the following important revisions have been made:

- 1: The storage and disposal section in the Directions for Use were changed to refer the user to the container for instructions.
- 2. The ammonium sulfate rate was changed from 2% to 1 to 2%.
- 3. The following annual weed species have been added or the rate recommendations have been changed: common chickweed, jointed goatgrass, henbit, annual spurge, red rice, and sprangletop.
- 4. The following annual weed species have been added to the list of weeds controlled by 12 to 16 fluid oz. of MON-35085 plus 0.25 lb. a.i. of Banval or 9.5 lb. a.i. of 2,4-D: cocklebur, marestail, morningglory, and smooth pigweed. In addition, the height of several of the weed species controlled have been changed from 6" to 12".

- 5. A section has been added allowing the use of 16 fluid oz. of MON-35085 plus 0.5 lb. a.i. of 2,4-D to control common ragweed, giant ragweed, Pennsylvania smartweed, and velvetleaf.
- 6. The High-Volume Broadcast Applications section has been amended to include the addition of <u>nonionic surfactant</u>.
- 7. The following perennial weeds have been added: <u>water bermudagrass, red</u> <u>vine, leafy spurge, and trumpetcreeper</u>.
- 8. The <u>Perennial Weeds</u> section has been modified to incorporate the tank mix recommendations into the individual species recommendations. This place all recommendations for a particular weed in a single section.
- 9. The <u>field bindweed</u> recommendation has been modified to allow a rate change for California.
- 10. The nutsedge recommendation has been modified.

1

Service Studies

- 11. For preemergence weed control in noncrop applications, the user is referred to the individual product labels for rate recommendations.
- 12. The <u>Ornamentals</u> section has been modified to allow use around all ornamentals rather than only those listed on the label.
- 13. The following crops have been added: <u>breadfruit</u>, <u>canistel</u>, <u>dates</u>, <u>jaboticaba</u>, <u>jackfruit</u>, <u>longan</u>, <u>lychee</u>, <u>passion fruit</u>, <u>persimmons</u>, <u>sapodilla</u>, <u>sapote</u>, <u>soursop</u>, <u>tamarind</u>, <u>pummelo</u>, tangors, and chestnuts.
- 14. The <u>Ecofarming Systems</u> section, which has been approved for Roundup®, is included in this label.
- 15. The <u>Minimum Tillage Systems</u> section has been renamed <u>Conservation</u> <u>Tillage</u>, <u>Minimum Tillage and No-Till Systems</u> and has been revised:
 - a. Tank mixtures are allowed with most residual corn and soybean herbicides.
 - b. Mixtures with 2,4-D prior to corn and 2,4-D or 2,4-DB prior to soybeans are allowed for improved burndown.
 - c. Additional surfactant is required and ammonium sulfate is encouraged for tank mixtures.
 - d. MON-35085 rates for tank mixtures have been modified.

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16. The <u>Preharvest Applications</u> section has been revised:

- a. Tank mixtures with Prep or Prep plus Def or Folex are allowed.
- b. A claim of possible enhancement of cotton leaf drop and regrowth inhibition is included.
- 17. The revised <u>Tree and Vine Crops</u> section, which has been approved for Roundup®, has been included.
- 18. A recommendation for the control of goatweed has been added to the Low Volume Application (Florida and Texas) section.

Monsanto requests that the Agency approve this label amendment. An Application for Pesticide Amendment and Certification with Respect to Citation of Data and General Offer to Pay are enclosed.

If you have any questions regarding this request, please contact Dr. Kevin Cannon or me.

Sincerely,

Sheila A. Schuette, Ph.D. Senior Registration Specialist

Phila a Schuett

(314) 694-7248

cc: R.P. Schneider K.F. Cannon Fred Groya I.C. O'Connor

EPA Form 8570-1 (Rev. 4-88) Previous editions are obsolete.

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Paperwork Reduction Act Notice and Instructions

Paperwork Reduction Act Notice

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Instructions

General

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- 4. Three copies of any data submitted.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on $8\ 1/2\ x$ 11 inch paper or as a mockup of the proposed label. If prepared as a mockup it should be constructed in such a way as to facilitate storage in an $8\ 1/2\ x$ 11 inch file. Mockup labels significantly smaller than $8\ 1/2\ x$ 11 inches should be mounted on $8\ 1/2\ x$ 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

Specific

Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A , for which you are submitting this application. For applications submitted in connection with New Registration actions, Section 1, 11, and IV must be completed by the applicant. For applications submitted in connection with amended registration actions, Section 1, 11, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

Section I - This Section must be completed for both Registration and Amended Registration actions.

- Confpany/Product Number Insert your company number, if one has been assigned. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If application is for an amendment, insert the registration number of the product.
- 2. Date Fill in the appropriate date.
 - Product Manager If known, fill in the name and number of the Product Manager.
 - Proposed Classification Specify the proposed classification for this product.
 - 5. Name and Address of Applicant. The name of the firm or person and address shown in your application is the person or firm to whom registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them. In registration matters.

An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.

6. Product Name - Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.

Amendment Information

Section II - This Section must be completed for all applications submitted in connection with Amended Registration.

 Subject of Amendment - Check the appropriate block, and provide a brief explanation of the purpose(s) for the amendment, such as: "the addition of a site, pest, or crop"; "to change mert ingredient"; "general label revisions of precautionary statements," etc.

Packaging and Container Information

Section III - This Section must be completed for all applications submitted in connection with New Registration.

- Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types. Indicate the size of the individual packets and number per retail container.
- Type of Retail Container Indicate type of container in which product will be marketed.
- Location of Net Contents Specify the not contents of all retail containers for your product.
- Size(s) of Retail Container Specify the net contents of all retail containers for your product.
- Location of Use Directions Indicate the location of the use directions for your product.
- Manaer in which label is affixed to product Indicate the method product labeling is attached to retail container.

Contact Point

Section IV - This Section must be completed for all Registration and Amended Registration applications.

- Self-explanatory.
- 6. EPA Use Only.

EPA Form 8570-1 (Rev. 9-88)

CERTIFICATION WITH RESPECT TO CITATION OF DATA

EPA File Symbol/Reg. No. 524-445	Date of Application February 14, 19
Name of Product MON-35085 Herbicide	
Applicant's Name and Address	fonsanto Company
	Suite 1100
	00 14th Street, N.W.
	Jashington, D.C. 20005
application. In addition, if cite-a is supported by all data in the Age effects of this product or of a substantially similar, and that is required to be submitted if this ap of a product of identical or similar	by all data submitted or cited in the loptions are indicated, this application of the properties of the properties of the product that is identical one of the types of data that would explication sought the initial registration composition and intended uses under the date of approval of this application.
2. I certify that, for each study registration that is an exclusive permission of the original data sub	cited in support of this application for use study, I have obtained the written interest to cite that study.
3. I certify that, for each study registration that is <u>not</u> an exclusi	cited in support of this application for use study:
I have obtained the written percite that study; or	rmission of the original data submitter
cited to support those appl compensation for those data i 3(c)(2)(D) of the Federal Insection to	companies who have submitted data I have ications and have offered to: (a) Pan accordance with section 3(c)(1)(D) and ticide, Fungicide and Rodenticide Act; and determine which data are subject to the FRA and the amount and terms of compensationave notified are: (Check one)
for all active ingredient:	on the Pesticide Data Submitters List s contained in my product (Cite-all under Selective Method). (Also sign Statement below).
<pre>[X] Monsanto Company has nave cited (Selective Met)</pre>	submitted the studies which I
Date February 14, 1991 Signat	ure Shieta Pheliott 3/1-1/91
	Senior Registration Specialist
persons, with regard to the approval by FIFRA sec. 3(c)(1)(D) and 3(c)(2)	
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Title	Senior Registration Specialist 12

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MON-35085

Herbicide by Monsanto

Complete Directions for Use

EPA Reg. No. 524-445

AVOID CONTACT WITH FOLIAGE, GREEN STEMS, OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, SINCE SEVERE INJURY OR DESTRUCTION MAY RESULT.

This product has been approved for use in California except as stated otherwise on pages 122XXX.

1990-1 897.10-005.16/53 1991-1 898.07-000.01/53

Read each of these sections of this label for essential product performance information.

USE THESE CONVENIENT SECTION MARKERS.

GENERAL INFORMATION

MIXING, ADDITIVES, AND APPLICATION INSTRUCTIONS

WEEDS CONTROLLED

NONCROP USES

CROPPING SYSTEMS

MINIMUM TILLAGE

TREE AND VINE CROPS

Read the entire label before using this product.

Use only according to label instructions.

Read ''LIMIT OF WARRANTY AND LIABILITY'' before buying or using. If terms are not acceptable, return at once unopened.

REFORMULATION IS PROHIBITED. SEE INDIVIDUAL CONTAINER CABEL FOR REPACKAGING LIMITATIONS.

LIMIT OF WARRANTY AND LIABILITY

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(MON-35085 91, Sec.1B)

(2/5/41)

Under the Federal Insecticide.
Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 24-445

(Not applicable to consumer applications applied by the homeowner for noncommercial purposes as permitted by the supplemental labeling for one-quart containers.)

This Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the Complete Directions for Use label booklet (''Directions'') when used in accordance with those Directions under the conditions described therein. NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyer and all users shall promptly notify this Company of any claims whether based in contract, negligence, strict liability, other tort or otherwise.

Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this Company, including, but not limited to, incompatibility with products other than those set forth in the Directions, application to or contact with desirable vegetation, unusual weather, weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation.

THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF THE LIABILITY OF THIS COMPANY OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED, OR, AT THE ELECTION OF THIS COMPANY OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH QUANTITY, OR, IF NOT ACQUIRED BY PURCHASE, REPLACEMENT OF SUCH QUANTITY. IN NO EVENT SHALL THIS COMPANY OR ANY OTHER SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES.

Buyer and all users are deemed to have accepted the terms of this LIMIT OF WARRANTY AND LIABILITY which may not be varied by any verbal or written agreement.

(INDEX PAGES)

PRECAUTIONARY STATEMENTS

(MON-35085 91, Sec.18)

(3/5/91)

Hazards to Humans and Domestic Animals

Keep out of reach of children.

WARNING!

CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY. HARMFUL IF INHALED.

Do not get in eyes or breathe spray mist or get in or on clothing.

Wear goggles, face shield or safety glasses.

Wash thoroughly with soap and water after handling.

Remove contaminated clothing and wash before reuse.

FIRST AID: IF IN EYES, hold eyelids open and flush with plenty of water. Get medical attention.

IF INHALED, remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF SWALLOWED, drink promptly a large quantity of milk, egg whites, or gelatin solution. If these are not available drink large quantities of water. Get medical attention.

In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000.

Environmental Hazards

Do not apply directly to water or wetland (swamps, bogs, marshes or potholes). Do not contaminate water when disposing of equipment washwaters.

Physical or Chemical Hazards

Spray solutions of this product should be mixed, stored and applied enly in using only stainless steel, aluminum, fiberglass, plastic and or plastic-lined steel containers.

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS

(MON-35085 91, Sec.1B)

STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

ACTIVE INGREDIENT:

*Glyphosate, N-(phosphonomethyl)

gylycine, in the form of its isopropylamine salt......41.0%

*Contains 480 grams per litre or 4 pounds per U.S. gallon of the active ingredient glyphosate, in the form of its isopropylamine salt. Equivalent to 356 grams per litre or 3 pounds per U.S. gallon of the acid, glyphosate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

Storage and Disposal

Do not contaminate water, foodstuffs, seed or feed or seed by storage or disposal.

See container label for STORAGE AND DISPOSAL instructions.

GENERAL INFORMATION

DO NOT APPLY THIS PRODUCT USING AERIAL SPRAY EQUIPMENT EXCEPT UNDER CONDITIONS AS SPECIFIED WITHIN THIS LABEL.

Roundup® herbicide This product, a water soluble liquid, mixes readily with water to be applied as a foliar spray for the control or destruction of most herbaceous plants. It may be applied through most standard industrial or field-type sprayers after dilution and , thorough mixing with water in accordance with label instructions.

This product moves through the plant from the point of foliage contact to and into the root system. Visible effects on most annual

(MON-35085 91, Sec.1B)

weeds occur within 2 to 4 days, but on most perennial weeds may not occur for 7 days or more. Extremely cool or cloudy weather following treatment may slow down activity of this product and delay visual effects of control. Visible effects are a gradual wilting and yellowing of the plant which advances to complete browning of aboveground growth and deterioration of underground plant parts.

Unless otherwise specified on this label, delay application until vegetation has emerged and reached the stages described for control of such vegetation under the ''Weeds Controlled'' section of this label. Unemerged plants arising from unattached underground rhizomes or root stocks of perennials will not be affected by the spray herbicide and will continue to grow. For this reason, best control of most perennial weeds is obtained when treatment is made at late growth stages approaching maturity.

Always use the higher rate of this product per acre within the recommended range when (1) weed growth is heavy or dense, or (2) weeds are growing in an undisturbed (noncultivated) area.

Do not treat weeds under poor growing conditions such as drought stress, disease or insect damage, as reduced weed control may result. Reduced results may also occur when treating weeds heavily covered with dust.

Reduced control may result when applications are made to annual or perennial weeds that have been moved, grazed, or cut, and have not been allowed to regrow to the recommended stage for treatment.

Rainfall or irrigation occurring within 6 hours after application may reduce effectiveness. Heavy rainfall or irrigation within 2 hours after application may wash the chemical off the foliage and a repeat treatment may be required.

This product does not provide residual weed control. For subsequent residual weed control, follow a label-approved herbicide program. Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used.

Buyer and all users are responsible for all loss or damage in connection with the use or handling of mixtures of this product with herbicides or other materials that are not expressly recommended in this labeling. Mixing this product with herbicides or other materials not recommended on this label may result in reduced performance.

For best results, spray coverage should be uniform and complete. Do not spray weed foliage to the point of runoff.

Keep people and pets off treated areas until spray solution has

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dried.

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DOMESTIC ANIMALS: This product is considered to be relatively nontoxic to dogs and other domestic animals; however, ingestion of this product or large amounts of freshly sprayed vegetation may result in temporary gastrointestinal irritation (vomiting, diarrhea, colic, etc.). If such symptoms are observed, provide the animal with plenty of fluids to prevent dehydration. Call a veterinarian if symptoms persist for more than 24 hours.

*Registered trademark of Monsanto Company

ATTENTION

AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS.

Do not allow the herbicide solution to mist, drip, drift, or splash onto desirable vegetation since minute quantities of this product can cause severe damage or destruction to the crop, plants, or other areas on which treatment was not intended. The likelihood of injury occurring from the use of this product is greatest when winds are gusty or in excess of 5 miles per hour or when other conditions, including lesser wind velocities, will allow spray drift to occur. When spraying, avoid combinations of pressure and nozzle type that will result in splatter or fine particles (mist) which are likely to drift. AVOID APPLYING AT EXCESSIVE SPEED OR PRESSURE.

NOTE: Use of this product in any manner not consistent with this label may result in injury to persons, animals or crops, or other unintended consequences. Keep container closed to prevent spills and contamination.

MIXING, ADDITIVES AND APPLICATION INSTRUCTIONS

APPLY THESE SPRAY SOLUTIONS IN PROPERLY MAINTAINED AND CALIBRATED EQUIPMENT CAPABLE OF DELIVERING DESIRED VOLUMES. DO NOT APPLY UNDER WHEN WIND OR OTHER CONDITIONS WHICH ALLOW FAVOR DRIFT. TO OCCUR. HAND GUN APPLICATIONS SHOULD BE PROPERLY DIRECTED TO AVOID SPRAYING DESIRABLE PLANTS. NOTE: REDUCED RESULTS MAY OCCUR IF WATER CONTAINING SOIL IS USED, Such as SUCH AS WATER FROM PONDS AND UNLINED DITCHES.

MIXING

This product mixes readily with water. Mix spray solutions of this product as follows: Fill the mixing or spray tank with the required

(MON-35085 91, Sec.18)

12/5/91

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amount of water. Add the proper recommended amount of this product (see the ''Directions for Use'' and ''Weeds Controlled'' sections of this label) near the end of the filling process and mix well. Remove hose from tank immediately after filling to avoid siphoning back into the carrier source. During mixing and application, foaming of the spray solution may occur. To prevent or minimize foam, avoid the use of mechanical agitators, place the filling hose below the surface of the spray solution, terminate by-pass and return lines at the bottom of the tank and, if needed, use an approved anti-foam or defoaming agent.

TANK MIXTURES

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Always predetermine the compatibility of labeled tank mixtures of this product with water carrier by mixing small proportional quantities in advance.

Mix labeled tank mixtures of this product with water as follows:

- Place a 20 to 35 mesh screen or wetting basket over filling port.
- 2. Through the screen, fill the sprayer tank one-half full with water and start agitation.
- If a wettable powder is used, make a slurry with the water carrier, and add it SLOWLY through the screen into the tank. Continue agitation.
- 4. If a flowable formulation is used, premix one part flowable with one part water. Add diluted mixture SLOWLY through the screen into the tank. Continue agitation.
- 5. If an emulsifiable concentrate formulation is used, premix one part emulsifiable concentrate with two parts water. Add diluted mixture slowly through the screen into the tank. Continue agitation.
- 6. Continue filling the sprayer tank with water and add the required amount of this product near the end of the filling process.
- 7. Where nonionic surfactant is recommended, add this to the spray tank before completing the filling process.
- 8. Add individual formulations to the spray tank as follows: wettable powder, flowable, emulsifiable concentrate, drift control additive, water soluble liquid followed by surfactant.

Maintain good agitation at all times until the contents of the tank are sprayed. If the spray mixture is allowed to settle, thorough

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agitation is required to resuspend the mixture before spraying is resumed.

Keep by-pass line on or near bottom of tank to minimize foaming. Screen size in nozzle or line strainers should be no finer than 50 mesh. Carefully select proper nozzle to avoid spraying a fine mist. For best results with conventional ground applications equipment, use flat fan nozzles.

Clean sprayer and parts immediately after using this product by thoroughly flushing with water.

ADDITIVES

SURFACTANTS

Nonionic surfactants which are labeled for use with herbicides may be used. Do not reduce rates of this product when adding surfactant. When adding additional surfactant or label instructions require the use of additional surfactant, use 0.5 percent surfactant concentration (2 quarts per 100 gallons of spray solution) when using surfactants which contain at least 50 70 percent active ingredient or a 1 percent surfactant concentration (4 quarts per 100 gallons of spray solution) for those surfactants containing less than 50 70 percent active ingredient. Read and carefully observe surfactant cautionary statements and other information appearing on the surfactant label.

AMMONIUM SULFATE

The addition of 1 to 2 percent dry ammonium sulfate by weight or 8.5 to 17 pounds per 100 gallons of water may increase the performance of this product, and this product plus 2,4-D -amine or Banvel™ or residual herbicide tank mixtures on annual and perennial weeds. The improvement in performance may be apparent where environmental stress is a concern. Low quality ammonium sulfate may contain material that will not readily dissolve which could result in nozzle tip plugging. To determine quality, perform a jar test by adding 1/3 cup of ammonium sulfate to 1 gallon of water and agitate for 1 minute. If undissolved sediment is observed, predissolve the ammonium sulfate in water and filter prior to addition to the spray tank. If ammonium sulfate is added directly to the spray tank, add slowly with agitation. Adding too quickly may cloq outlet line. Ensure that ammonium sulfate is 'completely dissolved in the spray tank before adding herbicides or surfactant. Thoroughly rinse the spray system with clean water , after use to reduce corrosion.

NOTE: The use of ammonium sulfate as an additive does not preclude

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the need for additional surfactant. Do not use herbicide rates lower than recommended in this label.

Banvel™ is a trademark of Sandoz, Inc.

COLORANTS OR DYES

Agriculturally approved colorants or marking dyes may be added to this product. Colorants or dyes used in spray solutions of this product may reduce performance, especially at lower rates or dilutions. Use colorants or dyes according to the manufacturer's recommendations.

APPLICATION EQUIPMENT AND TECHNIQUES

Do not apply this product through any type of irrigation system.

This product may be applied with the following application equipment:

Aerial -- Fixed Wing and Helicopter

Broadcast Spray

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Controlled Droplet Applicator (CDA) -- Hand-held or boom-mounted applicators which produce a spray consisting of a narrow range of droplet sizes.

Hand-Held and High-Volume Spray Equipment -- Knapsack and backpack sprayers, pump-up pressure sprayers, handguns, handwands, lances and other hand-held spray equipment used to direct the spray onto weed foliage and vehicle-mounted high-volume spray equipment for spray-to-wet applications.

Selective equipment -- Recirculating sprayers, shielded sprayers and wiper applicators.

See the appropriate part of this section for specific rates of application and instructions.

AERIAL EQUIPMENT

Use the recommended rates of this herbicide in 3 to 15 gallons of water per acre unless otherwise specified on this lakel. See the ''Weeds Controlled'' section of this label for specific rates. Unless otherwise specified, do not exceed the one quart rate per acres of this product. (Aerial applications of this product may be made in annual cropping conventional tillage systems, fallow and reduced tillage systems, preharvest, silvicultural sites, and

(MON-35085 91, Sec.1B)

(2/5/91)

rights-of-way. Refer to the individual use area sections of this label for recommended volumes and application rates.) FOR AERIAL APPLICATION IN CALIFORNIA, REFER TO THE FEDERAL SUPPLEMENTAL LABEL FOR AERIAL APPLICATIONS IN THAT STATE FOR SPECIFIC INSTRUCTIONS, RESTRICTIONS AND REQUIREMENTS.

This product plus Oust tank mixtures may not be applied by air in California.

Avoid direct application to any body of water.

AVOID DRIFT--DO NOT APPLY DURING INVERSION CONDITIONS, WHEN WINDS ARE GUSTY, OR UNDER ANY OTHER CONDITION WHICH WILL ALLOW FAVORS DRIFT. DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED. TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.

Coarse sprays are less likely to drift; therefore, do not use nozzles or nozzle configurations which dispense spray as fine spray droplets. Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure.

Drift control additives may be used. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label.

Ensure uniform application -- To avoid streaked, uneven or overlapped application, use appropriate marking devices.

Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove residues of this product accumulated during spraying or from spills. PROLONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES MAY RESULT IN CORROSION AND POSSIBLE FAILURE OF THE PART. LANDING GEAR ARE MOST SUSCEPTIBLE. The maintenance of an organic coating (paint) which meets aerospace specification MIL-C-38413 may prevent corrosion.

BROADCAST EQUIPMENT

For control of annual or perennial weeds listed on this label using broadcast equipment — Use the recommended rates of this product in 3 to 40 gallons of water per acre as a broadcast spray unless otherwise specified on this label. See the ''Weeds Controlled'' section of this label for specific rates. As density of weeds increases, spray gallonage volume should be increased within the recommended range to ensure complete coverage. Carefully select proper nozzle to avoid spraying a fine mist. For best results with ground application equipment, use flat fan nozzles. Check for even distribution of spray droplets.

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CONTROLLED DROPLET APPLICATION (CDA)

The rate of this product applied per acre by vehicle-mounted CDA equipment must not be less than the amount recommended in this label when applied by conventional broadcast equipment. For vehicle-mounted CDA equipment, apply 3 to 15 gallons of water per acre.

For the control of labeled annual weeds with hand-held_CDA units, apply a 20 percent solution of this product at a flow rate of 2 fluid ounces per minute and a walking speed of 1.5 MPH (1 quart per acre). For the control of labeled perennial weeds, apply a 20 to 40 percent solution of this product at a flow rate of 2 fluid ounces per minute and a walking speed of 0.75 MPH (2 to 4 quarts per acre).

Controlled droplet application equipment produces a spray pattern which is not easily visible. Extreme care must be exercised to avoid spray or drift contacting the foliage or any other green tissue of desirable vegetation, as damage or destruction may result.

HAND-HELD and HIGH-VOLUME EQUIPMENT

Use coarse sprays only.

Mix this product in clean water and apply to foliage of vegetation to be controlled. For applications made on a spray-to-wet basis, spray coverage should be uniform and complete. Do not spray to the point of runoff.

For control of annual weeds listed on this label, apply a 0.5 percent solution of this product plus nonionic surfactant to weeds less than 6 inches in height or runner length. Apply prior to seedhead formation in grass or bud formation in broadleaves broadleaf weeds. Allow three or more days before tillage or mowing.

For annual weeds over 6 inches tall, or when not using additional surfactant, or unless otherwise specified, use a 1 percent solution. For best results, use a 2 percent solution on harder-to-control perennials, such as bermudagrass, dock, field bindweed, hemp dogbane, milkweed and Canada thistle.

Less than complete coverage of weeds may result from the use of spray equipment designed for motorized spot treatments. Where less than complete coverage of annual weeds occurs, use a 5 percent solution. Do not reduce recommended concentrations of this product when adding surfactant.

Prepare the desired volume of spray solution by mixing the amount of this product in water as shown in the following table:

Spray Solution

		AMOUNT OF	MON-35085	;	
DESIRED VOLUME	1/2%	18	1 1/2%	2%	5%
1 gallon 25 gallons 100 gallons	2/3 oz 1 pt 2 qt	1=1/3 oz 1 qt 1 gal	2 oz 1½ qt 1½ gal	2=2/3 oz 2 qt - 2 gal	6½ oz 5 qt 5 gal
2 tablespoons	= 1 fluid ou	nce			

For use in knapsack sprayers, it is suggested that the proper amount of this product be mixed with water in a larger container. Fill sprayer with the mixed solution.

For hand-held WIPER APPLICATORS, see the ''Selective Equipment'' section and for hand-held CONTROLLED DROPLET APPLICATORS, see the ''Controlled Droplet Application (CDA)'' section of this label.

SELECTIVE EQUIPMENT

This product may be applied through a recirculating spray system, a shielded applicator, or a wiper applicator after dilution and thorough mixing with water to listed weeds growing in any noncrop site specified on this label and only when specifically recommended in cropping systems.

A recirculating spray system directs the spray solution onto weeds growing above desirable vegetation, while spray solution not intercepted by weeds is collected and returned to the spray tank for reuse.

A shielded applicator directs the herbicide solution onto weeds while shielding desirable vegetation from the herbicide.

A wiper applicator applies the herbicide solution onto weeds by rubbing the weed with an absorbent material containing the herbicide solution.

AVOID CONTACT WITH DESIRABLE VEGETATION.

Contact of the herbicide solution with the desirable vegetation may result in damage or destruction. Applicators used above desired vegetation should be adjusted so that the lowest spray stream or wiper contact point is at least two inches above the desirable vegetation. Droplets, mist, foam, or splatter of the herbicide

solution settling on desirable vegetation may result in discoloration, stunting, or destruction.

Applications made above the crops should be made when the weeds are a minimum of 6 inches above the desirable vegetation. Better results may be obtained when more of the weed is exposed to the herbicide solution. Weeds not contacted by the herbicide solution will not be affected. This may occur in dense clumps, severe infestations, or when the height of the weeds varies so that not all weeds are contacted. In these instances, repeat treatment may be necessary.

See the ''Weeds Controlled'' section of this label for recommended stage of growth for specific weeds.

NOTE

- Maintain equipment in good operating condition. Avoid leakage or dripping onto desirable vegetation.
- Adjust height of applicator to insure adequate contact with weeds.
- Keep nozzle tips and wiping surfaces clean.
- Keep spray patterns aligned into recovery chamber of the recirculating sprayer.
- Keep shields on shielded applicators adjusted to protect desirable vegetation.
- Maintain recommended roller RPM on roller applicators while in use.
- Keep wiper material at proper degree of saturation with herbicide solution.
- DO NOT use wiper equipment when weeds are wet.
- DO NOT operate equipment at ground speeds greater than 5 mph. Weed control may be affected by speed of application equipment. As weed density increases, reduce equipment ground speed to ensure good coverage of weeds.
- Be aware that, on sloping ground, the herbicide solution may migrate, causing dripping on the lower end and drying on the upper end of a wiper applicator.
- Variation in equipment design may affect weed control. With wiper applicators, the wiping material and its orientation must allow delivery of sufficient quantities of the recommended

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herbicide solution directly to the weed.

- Care must be taken with all types of wipers to ensure that the absorbent material does not become oversaturated, causing the herbicide to drip on desirable vegetation.
- Mix only the amount of solution to be used during a one-day period, as reduced activity may result from use of leftover solutions. With all equipment, drain and clean sprayer and wiper parts immediately after using this product by thoroughly flushing with water.

RECIRCULATING SPRAYERS

Recirculating sprayer calibration is made on the basis of ground speed and delivery volume. Two procedures can be used to calibrate: (1) determine the discharge being delivered per minute, then operate at the designated ground speed, or (2) select the desired ground speed and then adjust the sprayer to deliver the recommended volume per minute (this may require nozzle changes). Use the appropriate table below.

Do not operate at nozzle pressure above 20 PSI.

Table 1. Use this table when calibrating box or row-type recirculating sprayers. Box or row-type sprayer calibration is based on the total discharge collected per row. Use only straight stream or 15° fan-type nozzles.

*VOLUME PER MINUTE PER ROW

<u>MPH</u>	Fluid	Our	<u>ices</u>	;
2	26	to	35	
3	38	to	51	
4	51	to	68	
5	65	to	86	

*NOTE: Be certain the amount collected is for all spray streams treating one row.

Table 2. Use this table when calibrating broadcast type recirculating sprayers. Broadcast recirculating sprayer calibration is based on the discharge collected per minute from one nozzle on a 20-inch spacing.

VOLUME PER MINUTE PER NOZZLE

14

<u>MPH</u>	Flui	d 0:	unces
2	7	to	9
3	10	to	13
4	13	to	18
5	16	to	22

When applied as recommended under the conditions described for recirculating sprayers, this product will control the following weeds growing a minimum of 6 inches above desirable vegetation.

Perennial Broadleaf Weeds -- To SUPPRESS the following weeds, mix in a ratio of 4 quarts of this product in 20 gallons of water and apply as directed.

Dogbane, hemp

Apocynum cannabinum

Milkweed

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Asclepias syriaca

Perennial Grasses and Annual Broadleaf Weeds -- To control the following weeds, mix in a ratio of 3 quarts of this product in 20 gallons of water and apply as directed:

Cocklebur

Xanthium strumarium

Johnsongrass

Sorghum halepense

Pigweed, redroot

Amaranthus retroflexus

Sunflower

Helianthus annuus

Annual Grasses -- To control the following weeds, mix in a ratio of 2 quarts of this product in 20 gallons of water and apply as directed:

Corn

Zea mays

Shattercane

Sorghum bicolor

SHIELDED APPLICATORS

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When applied as directed under conditions described for shielded applicators, this product will control those weeds listed in the ''Weeds Controlled'' section of this label.

Shielded applicators which apply the herbicide solution as a spray band should be calibrated on a broadcast equivalent rate and volume basis. To determine these:

Band width	-	Herbicide			Herbicide
<u>in inches</u>	Х	Broadcast	•	=	Band RATE
Row width		RATE			per acre
in inches		per acre			

Band width		Herbicide		Herbicide
<u>in inches</u>	Х	VOLUME of	=	VOLUME
Row width		soluti o n		of solution
in inches		per acre		per acre

Use nozzles that provide uniform coverage within the treated area. EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT WITH DESIRABLE VEGETATION.

For specific rates of application and instructions for control of various annual and perennial weeds, see the ''Weeds Controlled'' section of this label.

WIPER APPLICATORS

Wiper applicators include either roller or wick devices which physically wipe appropriate concentrations or amounts of this product directly onto the weed. Equipment must be designed, maintained, and operated to prevent the herbicide solution from contacting desirable vegetation. Operate this equipment at ground speeds no greater than 5 mph. Performance may be improved by reducing speed in areas of heavy weed infestations to ensure adequate wiper saturation. Better results may be obtained if two applications are made in opposite directions.

Do not add surfactant to the herbicide solution.

For Roller Applicators -- Mix 1 gallon of this product in enough water to prepare 10 gallons of herbicide solution (10 percent solution). Apply this solution to perennial weeds or annual broadleaf weeds listed in this ''Wiper Applicators'' section.

Mix 1 gallon of this product in enough water to provide 20 gallons of herbicide solution (5 percent solution). Apply this solution to annual grasses listed in this ''Wiper Applicators'' section.

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Roller speed should be maintained at 40 to 60 RPM.

For Wick or Wiper Applicators -- Mix 1 gallon of this product in 2 gallons of water to prepare a 33 percent solution. Apply this solution to weeds listed in this ''Wiper Applicators'' section.

In severe infestations, reduce equipment ground speed to ensure that adequate amounts of this product are wiped on the weeds. A second treatment in the opposite direction may be beneficial.

Do not permit herbicide solution to contact desirable vegetation.

When applied as recommended under the conditions described for ''Wiper Applicators'', this product CONTROLS the following weeds:

ANNUAL GRASSES

Corn

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Zea mays

Panicum, Texas
Panicum texanum

Rye, common Secale cereale

Shattercane Sorghum bicolor

ANNUAL BROADLEAVES

Sicklepod

Cassia obtusifolia

Spanishneedles
Bidens bipinnata

Starbur, bristly

Acanthospermum hispidum

When applied as recommended under the conditions described for ''Wiper Applicators'', this product SUPPRESSES the following weeds:

ANNUAL BROADLEAVES

Beggarweed, Florida

Desmodium tortuosum

/ Dogfennel

Eupatorium capilliflorium

Pigweed, redroot
Amaranthus retroflexus

Ragweed, common Ambrosia artemisiifolia

Ragweed, giant
Ambrosia trifida

Sunflower
Helianthus annuus

Thistle, musk
Carduus nutans

VelvetleafAbutilon theophrasti

PERENNIAL GRASSES

Bermudagrass Cynodon dactylon

Guineagrass
Panicum maximum

Johnsongrass
Sorghum halepense

Smutgrass
Sporobolus poiretii

Vaseygrass Paspalum urvillei

PERENNIAL BROADLEAVES

Dogbane, hemp
Apocynum cannabinum

Milkweed
'Ascelepias syriaca

Nightshade, silverleaf Solanum elaeagnifolium

Thistle, Canada Cirsium arvense

WEEDS CONTROLLED

This herbicide controls many annual and perennial grasses and broadleaf weeds.

ANNUAL WEEDS

- · Apply to actively growing grass and broadleaf weeds.
- Allow at least 3 days after treatment before tillage.
- For maximum agronomic benefit, apply when weeds are 6 inches or less in height.
- To prevent seed production, applications should be made prior to seedhead formation.
- This product does not provide residual control; therefore, delay application until maximum weed emergence. Repeat treatments may be necessary to control later germinating weeds.

LOW-VOLUME BROADCAST APPLICATION (LOW-RATE TECHNOLOGY)

When applied as directed under the conditions described, this product will control the weeds listed below when:

- 1. Water carrier volumes are of 3 to 10 gallons per acre for ground applications and 3 to 5 gallons per acre for aerial applications are recommended. (See the ''Aerial Application'' section of this label for approved sites.)
- 2. A nonionic surfactant is added at 0.5 to 1 percent by total spray volume. Use 0.5 percent surfactant concentration when using surfactants which contain at least 50 70 percent active ingredient or a 1 percent surfactant concentration for those surfactants containing less than 50 70 percent active ingredient.

NOTE

- The addition of 2 percent dry ammonium sulfate by weight or 17 pounds per 100 gallons of water may increase the performance of this product on annual weeds. The improvement in performance may be apparent where environmental stress is a concern Pefer to the ''Mixing, Additives and Application Instructions'' section of this label.
- Do not tank-mix with soil residual herbicides when using these rates unless otherwise specified.

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- For weeds that have been mowed, grazed, or cut, allow regrowth to occur prior to treatment.
- Refer to the ''Tank Mixtures'' portion of this section for control of additional broadleaf weeds.

WEED SPECIES	MAXIMUM HEIGHT/LENGTH	RATE PER ACRE** (Fluid Ounces)
Foxtail Setaria spp.	12"	8 oz.
Barnyardgrass Echinochloa crus-galli	6" (0 to 4" (4 to 6"	12 oz. 16 oz. ¹) 24 oz. ¹)

Bluegrass, annual Poa annua

Brome, downy*

Bromus tectorum

Mustard, blue Chorispora tenella

Mustard, tansy
Descurainia pinnata

Mustard, tumble Sisymbrium altissimum

Mustard, wild Sinapis arvensis

Spurry, umbrella *Holosteum umbellatum

Barley 1 Hordeum vulgare

R**ye** Secale cereale

Sandbur, field Cenchrus spp.

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Shattercane

Sorghum bicolor

Stinkgrass

Eragrostis cilianensis

Wheat

18"

Triticum aestivum

Morningglory

Ipomea spp.

2"

16 oz.

Sicklepod

Cassia obtusifolia

Bluegrass, bulbous Poa bulbosa

Cheat

Bromus secalinus

Chickweed, common

Stellaria media

Chickweed, mouseear

Cerastium vulgatum

Corn

Zea mays

Goatgrass, jointed

Aegilops cylindrica

Groundsel, common

Senecio vulgaris

Henbit

¡Lamium amplexicăule

Horseweed/Marestail

Conyza canadensis

Lambsquarters, common

Chenopodium album

Pennycress, field

Fanweed

Thlaspi arvense

(MON-35085 91, Sec.18)

Rocket, London Sisymbrium irio

Ryegrass, Italian
Lolium multiflorum

Shepherdspurse Capsella bursa-pastoris

12."

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Spurgė, annual Euphorbia spp.

Buttercup

Ranunculus spp.

Cocklebur

Xanthium strumarium

Crabgrass
Digitaria spp.

Dwarfdandelion Krigia cespitosa

Falseflax, smallseed Camelina microcarpa

Foxtail, Carolina Alopecurus carolinianus

Johnsongrass, seedling Sorghum halepense

Oats, wild Avena fatua

Panicum, fall
"Panicum dichotomiflorum

Panicum, Texas
Panicum texanum

Pigweed, redroot Amaranthus retroflexus

Piqweed, smooth
Amaranthus hybridus

Witchgrass

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icklepod Cassia obtusifolia	3 to 4"	24 oz
ignalgrass, broadleaf Brachiaria platyphylla	4"	
Morseweed/Marestail Conyza canadensis	7 to 12"	-
ambsquarters, common Chenopodium album		
purge, annual Euphorbia spp.		·
lice, red Oryza sativa	4 11	32 02.
T eaweed Sida spinosa	4 ^{.1}	32 oz.
Rice, red Orysa sativa		
Sprangletop Leptochloa spp.	6 "	
Geranium, Carolina Geranium carolinianum	12"	
Goosegrass Eleusine indica		
Primrose, cutleaf evening Oenothera laciniate		
Pusley, Florida Richardia scabra		
Sicklepod Cassia obtusifolia	5 to 12"	
Spanishneedles Bidens bipinnata		
Filaree Erodium spp.	12"	48 oz.
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¹Use these rates to control barnyardgrass in Alabama, Arkansas, Mississippi, Missouri, Louisiana and Texas for preplant treatments.

- * For control in no-till systems, use 16 fluid ounces per acre.
- ** For those rates less than 32 fluid ounces per acre, this product at rates up to 32 fluid ounces per acre may be used where heavy weed densities exist.
 - TANK MIXTURES
 - MON-35085 plus BANVEL plus NONIONIC SURFACTANT
 - MON-35085 plus 2,4-D AMINE plus NONIONIC SURFACTANT

DO NOT APPLY BANVEL OR 2,4-D AMINE TANK MIXTURES BY AIR IN CALIFORNIA.

These tank mixtures are recommended for use in fallow and reduced tillage areas only. Follow use directions as given in the ''Low-Volume Broadcast Application'' section.

Roundup This product plus Banvel or 2,4-D amine will control the annual grasses and broadleaf weeds previously listed for Roundup this product alone at the indicated heights (except 8 fluid ounces per acre applications), plus the following broadleaf weeds. For those weeds previously listed at 8 fluid ounces of Roundup herbicide this product alone per acre, use the 12 fluid ounces rate in these tank mixtures.

NOTE: Refer to the specific product labels for crop rotation is restrictions and cautionary statements of all products used in tank mixtures. Some crop injury may occur if Banvel is applied within 45 days of planting. The addition of Banvel and a mixture with this product may provide short-term residual control of selected weed species.

Apply 12 to 16 fluid ounces of this product plus 0.25 lb. a.i. of Banvel or 0.5 pound a.ei. of 2,4-D amine, plus 0.5 to 1 percent nonionic surfactant by total spray volume per acre to control dense populations of the following annual broadleaf weeds when less than the 6 inches in height Indicated:

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Cocklebur (12")
Xanthium strumarium

Kochia * (6")
Kochia scoparia

Lambsquarters (12*)
Chenopodium album

Lactuca serriola

Marestail/Horseweed (6")
Conyza canadensis

Morningglory (6")

Ipomea spp.

Pigweed, redroot (12")
Amaranthus retroflexus

Pigweed, smooth (12") Amaranthus hybridus

Thistle, Russian (12") Salsola kali

*Controlled with Banvel tank mixture only.

Apply 16 fluid ounces of this product plus 0.5 pound a.i. of 2,4-D, plus 0.5 to 1 percent nonionic surfactant by total spray volume per acre to control the following annual broadleaf weeds when less than 6 inches in height.

Ragweed, common Ambrosia artemisiifolia

Ragweed, giant Ambrosia trifida

Bmartweed, Pennsylvania Polygonum pensylvanicum

Velvetleaf Abutilon theophrasti

HIGH-VOLUME BROADCAST APPLICATIONS

When applied as directed under the conditions described, this

(MON-35085 91, Sec.1B)

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product will control the weeds listed below when water carrier volumes are 10 to 40 gallons per acre for ground applications.

Use 1 quart of this product per acre if weeds are less than 6 inches tall. If weeds are over 6 inches tall, use 1.5 quarts of this product per acre plus 0.5 to 1 percent nonionic surfactant by total spray volume. Use 1 quart per acre if weeds are less than 6 inches tall and 1.5 quarts per acre if weeds are over 6 inches tall. If weeds have been mowed, grazed, or cut, allow adequate time for new growth to recommended stages prior to treatment. These rates will also provide control of weeds listed in the ''Low-Volume Broadcast Application'' section.

WEED SPECIES

Balsamapple*
Momordica charantia

Bassia, fivehook
Bassia hyssopifolia

Brome
Bromus spp.

Fiddleneck
Amsinckia spp.

Flaxleaf Fleabane Conyza bonariensis

Fleabane Erigeron spp.

Kochia Kochia scoparia

Lettuce, prickly Lactuca serriola

Panicum spp.

Ragweed, common Ambrosia artemisiifolia

Ragweed, giant
Ambrosia trifida

Smartweed, Pennsylvania

Polygonum pensylvanicum

Sowthistle, annual Sonchus cleraceus

Sunflower

Helianthus annuus

Thistle, Russian Salsola kali

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VelvetleafAbutilon theophrasti

*Apply with hand-held equipment only.

PERENNIAL WEEDS

Apply this product as follows to control or destroy most perennial weeds:

NOTE: If weeds have been mowed or tilled, do not treat until plants have resumed active growth and are at have reached the recommended stages.

Repeat treatments may be necessary to control weeds regenerating from underground parts or seed. Repeat treatments must be made prior to crop emergence.

The addition of 1 to 2 percent dry ammonium sulfate by weight or 8.5 to 17 pounds per 100 gallons of water may increase the performance of this product on perennial weeds. The improvement in performance may be apparent where environmental stress is a concern. Refer to the ''Mixing, Additives and Application Instructions'' section of this label.

When applied as recommended under the conditions described, this product WILL CONTROL the following PERENNIAL WEEDS:

Alfalfa 'Medicago sativa

Alligatorweed*
Alternanthera philoxeroides

Artichoke, Jerusalem Helianthus tuberosus

Bahiagrass Paspalum notatum

(MON-35085 91, Sec.1B)

Bentgrass
Agrostis spp.

Bermudagrass
Cynodon dactylon

Bermudagrass, vater (knotgrass) Paspalum distichum

Bluegrass, Kentucky
Poa spp.

Blueweed, Texas
Helianthus ciliaris

Brackenfern Pteridium aquilinum

Bromegrass, smooth Bromus inermis

Bursage, woollyleaf Franseria tomentosa

Canarygrass, reed
Phalaris arundinacea

Cattail Typha spp.

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Clover, red Trifolium pratense

Clover, white Trifolium repens

cogongrass ;Imperata cylindrica

Dallisgrass
Paspalum dilatatum

'Dandelion
Taraxacum officinale

Dock, curly Rumex crispus

(MON-35085 91, Sec.18)

Dogbane, hemp
Apocynum cannabinum

Fescues
Festuca spp.

Fescue, tall
Festuca arundinacea

Guineagrass
Pancium maximum

Horsenettle
Solanum carolinense

Horseradish Armoracia rusticana

Johnsongrass Sorghum halepense

Kikuyugrass Pennisetum clandestinum

Knapweed Centaurea repens

Lantana camara

Milkweed
Asclepias spp.

Muhly, wirestem Muhlenbergia frondonsa

Mullein, common Verbascum thapsus

Napiergrass
'Pennisetum purpureum

Nightshade, silverleaf Solanum elaeagnifolium

Nutsedge, purple, yellow Cyperus rotundus Cyperus esculentus

Orchardgrass

(MON-35085 91, Sec.1B)

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Dactylis glomerata

Pampas

cortaderia jubata

Paragrass

Brachiaria mutica

Pbraqmites*

Phragmites spp.

Quackgrass

Agropyron repens

Redvines

Brunnichia ovata

Reed, giant

Arundo donax

Ryegrass, perennial

Lolium perenne

Smartweed, swamp Polygonum coccineum

Spurge, leafys Euphorbia esula

Sweet potato, wild*

Ipomoea pandurata

Thistle, Canada Cirsium arvense

Timothy

Phleum pratense

Torpedograss*

Panicum repens

Trumpetcreeper*

Campsis radicans

ResipyessV

Paspalum urvillei

Wheatgrass, western

Agropyron smithii

*Partial Control

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(MON-35085 91, Sec.18)

This product is not registered in California for use on water bermudagrass, redvine, leafy spurge and trumpetcreeper.

See ''Directions for Use'' and ''Mixing, Additives and Application Instructions'' sections of this label for labeled uses and specific application instructions.

Alfalfa--Apply 1 quart of this product per acre plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre. Make application after the last hay cutting in the fall. Allow alfalfa to regrow to a height of 6 to 8 inches or more prior to treatment. Applications should be followed with deep tillage at least 7 days after treatment, but before soil freeze-up.

Alligatorweed--Apply 4 quarts of this product per acre or apply a 1½ percent solution with hand-held equipment to provide partial control. Apply when most of the plants are in bloom. Repeat applications will be required to maintain such control.

Bentgrass—For suppression in grass seed production areas. For ground applications only, apply 1.5 quarts of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 10 to 20 gallons of water per acre. Ensure entire crown area has resumed growth prior to a fall application. Bentgrass should be actively growing and have at least 3 inches of growth. Tillage prior to treatment should be avoided. Tillage 7 to 10 days after application is recommended for best results. Failure to use tillage after treatment may result in unacceptable control.

Bermudagrass--For control, apply 5 quarts of this product per acre and, for partial control, apply 3 quarts per acre. Treat when bermudagrass is actively growing and seedheads are present. Retreatment may be necessary to maintain control. Allow 7 or more days after application before tillage.

Bermudagrass, water (knotgrass) -- Apply 1.5 quarts of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 5 to 10 gallons of water per acre. Apply when water bermudagrass is actively growing and 12 to 18 inches in length. Allow 7 or more days before tilling, flushing or flooding the field.

Fall applications only - Apply I quart of this product plus 3.5 to 1 percent nonionic surfactant by total spray volume in 5 to 10 gallons of water per acre. Fallow fields should be tilled prior to application. Apply prior to frost on water bermudagrass that is actively growing and 12 to 18 inches in length. Allow 7 or more days before tillage.

Bindweed, field -- For control, apply 4 to 5 quarts of this product

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per acre west of the Mississippi River and 3 to 4 quarts east of the Mississippi River. Apply when the weeds are actively growing and are at or beyond full bloom. Do not treat when weed is under drought stress as good soil moisture is necessary for active growth. For best results, apply in late summer or fall. Fall treatments must be applied before a killing frost. Allow 7 or more days after application before tillage.

Also for control, apply 2 quarts of this product plus 0.5 pound a.i. of Banvel in 10 to 20 gallons of water per acre. At these rates, apply using ground application only.

The following tank mixtures with 2.4-D may be applied using aerial application equipment (except in California) in fallow and reduced tillage systems only.

For suppression on irrigated agricultural land apply 1 to 2 quarts of this product plus 1 pound a.i. of 2,4-D in 10 to 20 gallons of water per acre with ground equipment only. Applications should be made following harvest or in fall fallow ground when the bindweed is actively growing and the majority of runners are 12 inches or more in length. The use of at least one irrigation will promote active bindweed growth:

For suppression, apply 16 fluid ounces of this product plus 0.5 pound a.i. of 2,4-D plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre for ground applications and 3 to 5 gallons of water per acre for aerial applications. Applications should be delayed until maximum emergence has occurred and when vines are between 6 to 18 inches in length.

In California only, apply 1 to 5 quarts of this product per acre. Actual rate needed for suppression or control will vary within this range depending on local conditions. Also, for more specific use recommendations for California refer to the following paragraph:

For suppression on irrigated land where annual tillage is performed, apply 1 quart of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre. Apply to actively growing bindweed that has reached a length of 12 inches or greater. Allow maximum weed emergence and runner growth. Do not treat when weeks are under drought stress as good soil moisture is necessary for active growth. Allow 3 or more days after application before tillage.

'Bindweed, field/Blueweed, Texas Apply 4 to 5 quarts of this product per acre west of the Mississippi River and 3 to 4 quarts per acre east of the Mississippi River. Apply when weed is actively growing and is at or beyond full bloom. Do not treat when weed is under drought stress as good soil moisture is necessary for active

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growth. New leaf development indicates active growth. For best results, apply in late summer or fall. Fall treatments must be applied before a killing frost. Allow 7 or more days after application before tillage.

Bindweed, field (suppression-irrigated lands where annual tillage is performed)—Apply 1 quart of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre. Apply to actively growing bindweed that has reached a length of 12 inches or greater. Allow maximum weed emergence—and runner growth. Do not treat when weed is under drought stress—as good soil moisture is necessary for active growth. Allow 3 or more days after application before tillage.

Bluegrass, Kentucky / Bromegrass, smooth / Orchardgrass--Apply 2 quarts of this product in 10 to 40 gallons of water per acre when the grasses are actively growing and most plants have reached bootto-early seedhead stage of development. For partial control in pasture or hay crop renovation, apply 1 to 1½ quarts of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre. Apply to actively growing plants when most have reached 4 to 12 inches in height. Allow 7 or more days after application before tillage.

Orchardgrass (sods going to no-till corn)--Apply 1 to 1.5 quarts of this product per acre plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre. Apply to orchardgrass that is a minimum of 12 inches tall for spring applications and 6 inches tall for fall applications. Allow at least three days following application before planting. A sequential application of 3.75 to 4.5 quarts of Lariat® herbicide, or equivalent, will be necessary for optimum results. Lariat should be applied within 3 to 10 days following spring applications to prevent annual weed growth.

Lariat is not registered for use in California.

Dariat is a registered trademark of Monsanto Company.

Blueweed, Texas—Apply 4 to 5 quarts of this product per acra west of the Mississippi River and 3 to 4 quarts per acre east of the Mississippi River. Apply when weed is actively growing and is at or beyond full bloom. Do not treat when weed is under drought stress as good soil moisture is necessary for active growth. New leaf development indicates active growth. For best risults, apply in late summer or fall. Fall treatments must be applied before a killing frost. Allow 7 or more days after application before tillage.

Brackenfern--Apply 3 to 4 quarts of this product per acre as a broadcast spray or as a 1 to 11 percent solution with hand-held

equipment. Apply to fully expanded fronds which are at least 18 inches long.

Bursage, woollyleaf--For control, apply 2 quarts of this product plus 1 pint of Banvel per acre. For partial control, apply 1 quart of this product plus 1 pint of Banvel per acre. Add 0.5 to 1 percent nonionic surfactant by total spray volume and apply 3 to 20 gallons of water per acre. Apply when plants are producing new active growth which has been initiated by moisture for at least 2 weeks and when plants are at or beyond flowering.

Canarygrass, reed/Timothy / Wheatgrass, western--Apply 2 to 3 quarts of this product per acre. For best results, apply to actively growing plants when most have reached the boot-to-head stage of growth. Allow 7 or more days after application before tillage.

Cogongrass--Apply 3 to 5 quarts of this product plus 0.5 to 1 percent nonionic surfactant in 10 to 40 gallons of water per acre. Apply when Cogongrass is at least 18 inches tall and actively growing in late summer or fall. Allow 7 or more days after application before tillage or mowing. Due to uneven stages of growth and the dense nature of vegetation preventing good spray coverage, repeat treatments may be necessary to maintain control.

Dandelion/Dock, curly--Apply 3 to 5 quarts of this product per acre when plants are actively growing and most have reached the early bud stage of growth. Allow 7 or more days after application before tillage.

Also for control, apply 16 fluid ounces of this product plus 0.5 pound a.i. 2,4-D plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre.

Dogbane, hemp/Knapweed/Horseradish Apply 4 quarts of this product per acre. Apply when actively growing and when most weeds have reached the late bud to flower stage of growth. Following crop harvest or mowing, allow weeds to regrow to a mature stage prior to treatment. For best results, apply in late summer or fall. Allow 7 or more days after application before tillage. Apply 4 quarts of this product per acre. Apply when actively growing and when nost weeds have reached the late bud to flower stage of growth. Following crop harvest or mowing, allow weeds to regrow to a mature stage prior to treatment. For best results, apply in late summer or fall. Allow 7 or more days after application before tillage.

For suppression, apply 16 fluid ounces of this project plus 0.5 pound a.i. of 2,4-D plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre for ground applications and 3 to 5 gallons of water per acre for acrial applications. Delay applications until maximum emergence of dogbane

has occurred.

Fescue, tall--Apply 3 quarts of this product in 10 to 40 gallons of water per acre to actively growing plants when most have reached boot-to-early seedhead stage of development.

Fall applications only--Apply 1 quart of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre. Apply to fescue in the fall when actively growing and plants have 6 to 12 inches of new growth. Allow 7 or more days after application before tillage. A sequential application of 1 pint per acre of this product plus nonionic surfactant will improve long-term control and control seedlings germinating after fall treatments or the following spring.

Guineagrass--Apply 3 quarts of this product per acre or use a 1 percent solution with hand-held equipment. Apply to actively growing guineagrass when most has reached at least the 7-leaf stage of growth. Ensure thorough coverage when using hand-held equipment. Allow 7 or more days after application before tillage.

Johnsongrass/Ryegrass, perennial—Apply 1 to 3 quarts of this product per acre. In annual cropping systems apply 1 to 2 quarts of this product per acre. Apply 1 quart of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre. Use 2 quarts of this product when applying 10 to 40 gallons of water per acre. In noncrop or areas where annual tillage (no-till), is not performed, apply 2 to 3 quarts of this product in 10 to 40 gallons of water per acre. For best results, apply to actively growing plants when most have reached the boot-to-head stage of growth or in the fall prior to frost. Allow 7 or more days after application before tillage. Do not tank-mix with residual herbicides when using the 1 quart per acre rate.

For burndown of Johnsongrass, apply 1 pint per acre plus 0.5 to 1 percent nonionic surfactant in 3 to 10 gallons of water per acre before the plants reach a height of 12 inches. For this use, allow at least 3 days after treatment before tillage.

Spot Treatment (partial control or suppression) -- Apply a 1 percent solution of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume when johnsongrass is 12 to 13 inches in height. Coverage should be uniform and complete.

Kikuyugrass—Apply 2 to 3 quarts of this product per acra. Spray when most kikuyugrass is at least 8 inches in height (3 or 4-leaf stage of growth) and actively growing. Allow 3 or more days after application before tillage.

Knapweed/Horseradish--Apply 4 quarts of this product per acre. Apply when actively growing and when most weeds have reached the late bud to flower stage of growth. Following crop harvest or mowing, allow weeds to regrow to a mature stage prior to treatment. For best results, apply in late summer or fall. Allow 7 or more days after application before tillage.

Lantana--Apply this product as a 1 to $1\frac{1}{4}$ percent solution using hand-held equipment only. Apply to actively growing lantana at or beyond the bloom stage of growth. Use the higher application rate for plants that have reached the woody stage of growth. Allow 7 or more days after application before tillage.

Milkweed, common--Apply 3 quarts of this product per acre. Apply when actively growing and most of the milkweed has reached the late bud to flower stage of growth. Following small grain harvest or mowing, allow milkweed to regrow to a mature stage prior to treatment. Allow 7 or more days after application before tillage.

Muhly, wirestem—Apply 1 to 2 quarts of this product per acre. Use 1 quart of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre. Use 2 quarts of this product when applying 10 to 40 gallons of water per acre or in pasture, sod, or noncrop areas. Spray when the wirestem muhly is 8 inches or more in height and actively growing. Do not till between harvest and fall applications or in the fall or spring prior to spring applications. Allow 3 or more days after application before tillage. This product will not provide residual control of wirestem muhly from seeds which germinate after application of this product. Do not tank mix with residual herbicides when using the 1 quart per acre rate.

Nightshade, silverleaf—For control, apply 2 quarts of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre. Applications should be made when at least 60 percent of the plants have berries. Fall treatments must be applied before a killing frost. Allow 7 or more days after application before tillage. Do not treat when weed is under drought stress as good soil moisture is necessary for active growth.

Nutsedge: purple, yellow Apply 3 quarts of this product per acre as a broadcast spray, or apply a 1 percent solution from hand-held equipment to control existing nutsedge plants and immature nutlets attached to treated plants. Treat when plants are in flower or when new nutlets can be found at rhizome tips. Nutlets which have not germinated will not be controlled and may germinate following treatment. Repeat treatments will be required for long term control. Wait 7 days after treatment before tillage. Tillage will stimulate nutlet germination.

Apply 1 pint to 1 quart of this product per acre, -plus 0.5 to 1

percent nonionic surfactant in 3 to 40 gallons of water per acre to provide suppression or partial control of existing nutsedge plants. Treat when plants have 3 to 5 leaves (less than 6 inches). Repeat treatments will be required to control subsequent emerging plants. Wait 7 days after treatment before tillage or mowing.

Nutsedge: purple, yellow-Apply 3 quarts of this product per acre as a broadcast spray, or apply a 2 percent solution from hand-held equipment to control existing nutsedge plants and immature nutlets attached to treated plants. Treat when plants are in flower or when new nutlets can be found at rhizome tips. Nutlets-which have not germinated will not be controlled and may germinate following treatment. Repeat treatments will be required for long-term control of ungerminated tubers.

Sequential applications of 1 to 2 quarts of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre will provide control. Make applications when a majority of the plants are in the 3 to 5 leaf stage (less than 6 inches tall). Repeat this application, as necessary, when newly emerging plants reach the 3 to 5 leaf stage. Subsequent applications will be necessary for long-term control.

For suppression to partial control of existing plants, apply 1 pint to 2 quarts of this product per acre, plus 0.5 to 1 percent nonionic surfactant in 3 to 40 gallons of water per acre. Treat when plants have 3 to 5 leaves and most are less than 6 inches tall. Repeat treatments will be required to control subsequent emerging plants or regrowth of existing plants. Wait 7 days after treatment before tillage or mowing.

For improved control of existing nutsedge plants, apply 1 to 3 quarts of this product plus 8 to 16 fluid ounces of Goal per acre plus 0.5 to 1 percent nonionic surfactant in 3 to 40 gallons of water per acre. Treat when plants have 3 to 5 leaves and most are less than 6 inches tall. Repeat treatments will be required to control subsequent emerging plants or regrowth of existing plants. Wait 7 days after treatment before tillage or mowing.

Pampas++Apply this product as a 1½ to 2 percent solution using hand-held equipment. Apply to plants that are actively growing at or beyond the boot stage of growth. Thorough coverage is necessary for best control.

Phragmites—For partial control of phragmites in Florida and the counties of other states bordering the Gulf of Maxico, apply 5 quarts per acre as a broadcast spray or apply a 2 percent solution from hand-held equipment. In other areas of the U.S., apply 3 quarts per acre as a broadcast spray or apply a 1 percent solution from hand-held equipment for partial control. For best results, treat during late summer or fall months or when plants are actively

growing and in full bloom. Treatment before or after this stage may lead to reduced control. Due to the dense nature of the vegetation, which may prevent good spray coverage or uneven stages of growth, repeat treatments may be necessary to maintain control. Visual control symptoms will be slow to develop.

Quackgrass—In Annual Cropping Systems, or in Pastures and Sods Followed by Deep Tillage: Apply 1 to 2 quarts of this product per acre. For the one quart rate, apply 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre. For the 2 quart rate, apply in 10 to 40 gallons of water per acre. Do not tank mix with residual herbicides when using the 1 quart rate. Spray when quackgrass is 8 6 to 12 8 inches in height and actively growing. Do not till between harvest and fall applications or in fall or spring prior to spring application. Allow 3 or more days after application before tillage. In pastures or sods, for best results use a moldboard plow.

Quackgrass—Pasture or Sod or Other Noncrop Areas Where Deep Tillage is Not Planned Following Application: Apply 2 to 3 quarts in 10 to 40 gallons of water per acre. Spray when the quackgrass is greater than 8 inches tall and actively growing. Do not till between harvest and fall application or in fall or spring prior to spring application. Allow 3 or more days after application before tillage.

Redvine--For suppression, apply 24 fluid ounces of this product per acre at each of two applications 7 to 14 days apart or a single application of 2 quarts per acre. Apply recommended rates in 5 to 10 gallons of water per acre plus 0.5 to 1 percent nonionic surfactant by total volume. Apply to actively growing plants in late September or early October, which are at least 18 inches tall and have been growing 45 to 60 days since the last tillage operation. Make applications at least one week before a killing frost.

Reed, giant-For control of giant reed, apply a 2 percent solution of this product when plants are actively growing. Best results are obtained when applications are made in late summer to fall.

Smartweed, swamp--Apply 3 to 5 quarts of this product per acre when plants are actively growing and most have reached the early bud stage of growth. Allow 7 or more days after application before tillage.

Also for control, apply 16 fluid ounces of this product plus 0.5 pound active ingredient of 2,4-D plus 0.5 to 1 percent nomionic surfactant by total volume in 3 to 10 gallons of water per acre in the late summer or fall. Apply when plants are actively growing and most have reached the early bud stage of growth. Allow 7 or more days after application before tillage.

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Spurge, leafy—For suppression, apply 16 fluid ounces of this product plus 0.5 pound active ingredient 2,4-D plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre in the late summer or fall. Apply when plants are actively growing. If mowing has occurred prior to treatment, apply when most of the plants are 12 inches tall. Allow 7 or more days after application before tillage.

sweet Potato, wild-Apply this product as a 2 percent solution using hand-held equipment. Apply to actively growing weeds that are at or beyond the bloom stage of growth. Repeat applications will be required. Allow the plant to reach the recommended stage of growth before retreatment. Allow 7 or more days before tillage.

Thistle, Canada—Apply 2 to 3 quarts of this product per acre. Apply to actively growing thistles when most are at or beyond the bud stage of growth. After harvest, mowing or tillage in the late summer or fall, allow at least 4 weeks for initiation of active growth and rosette development prior to the application of this product. Fall treatments must be applied before a killing frost. Allow 3 or more days after application before tillage.

For suppression of Canada thistle, apply 1 quart per acre of this product, or 1 pint of this product plus 0.5 pound a.i. 2,4-D per acre, plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre in the late summer or fall after harvest, mowing or tillage. Allow rosette regrowth to a minimum of 6 inches in diameter before treating. Applications can be made as long as leaves are still green and plants are actively growing at the time of application. Allow 3 or more days after application before tillage.

Torpedograss—Apply 4 to 5 quarts of this product per acre to provide partial control of torpedograss. Apply to actively growing torpedograss when most plants are at or beyond the seedhead stage of growth. Repeat applications will be required to maintain control. Fall treatments must be applied before frost. Allow 7 or more days after application before tillage.

Trumpetcreeper--For control, apply 2 quarts of this product per acre in 5 to 10 gallons of water per acre. Apply to actively growing plants in late September or October, which zrz at least 18 inches tall and have been growing 45 to 60 days since the last tillage operation. Make applications at least 1 week before a killing frost.

Other perennials listed on this label—Apply 3 to 5 quarts of this product per acre. Apply when actively growing and most have reached early head or early bud stage of growth. Allow 7 or more days after application before tillage.

TANK-MIXTURES

When applied as directed, under the conditions described, Roundup plus Banvel or 2,4-D amine will suppress or control the following perennial broadleaf weed:

Bindweed, field

-Convolvulus arvensis

For suppression, apply 16 ounces of this product plus 0.5—1b a.e. of 2,4—D amine or 0.25—1b a.i. of Banvel, plus 0.5—to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre for ground applications and 3 to 5 gallons of water per acre for aerial applications. Applications should be delayed until maximum emergence has occurred and when vines are between 6 to 18 inches in length. These tank mixtures may be applied using aerial application equipment (except in California) in fallow and reduced tillage systems only.

For control, apply 2-quarts of this product plus 0.5-pound a.i. of Banvel in 10 to 20 gallons of water per acre. At these rates, apply using ground application equipment only.

Irrigated Agricultural Lands

Apply 1 to 2 quarts of this product plus 1 quart per acre of 2,4-D amine in 10 to 20 gallons of water per acre with ground equipment only for partial control (suppression) of field bindweed. Applications should be made following harvest or in fall fallow ground when the bindweed is actively growing and the majority of runners are 12 inches or more in length. The use of at least one irrigation will promote active bindweed growth.

Dogbane, hemp

- Apocynum cannabium

For suppression, apply 16 ounces of this product plus-16 ounces of 2,4-D amine plus-0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre for ground applications and 3 to 5 gallons of water per acre for acrial applications. Delay applications until maximum emergence of dochane has occurred. For control, apply 4 quarts of this product in 3 to 20 gallons of water using ground application equipment only-

Smartweed, Swamp

, - Polygonum coccineum

For control, apply 16 ounces of this product plus 0.5 pounds active ingredient of 2,4 D amine plus 0.5 to 1 percent nonionic surfactant

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by-total volume in 3 to 10 gallons of water per acre in the late summer or fall. Apply when plants are actively growing and most have reached the early bud stage of growth. Allow 7 or more day after application before tillage.

Refer to the specific-product labels for crop rotation restrictions and cautionary statements of all products in tank mixture.

WOODY BRUSH AND TREES

When applied as recommended under the conditions described, this product CONTROLS or PARTIALLY CONTROLS the following woody brush, plants and trees:

Alder

Alnus spp.

Ash*

Fraxinus spp.

Aspen, quaking

Populus tremuloides

Bearmat (Bearclover)

Chamaebatia foliolosa

Birch

Betula spp.

Blackberry

Rubus spp.

Broom:

French

Cytisus monspessulanus

Scotch

Cytisus scoparius

Búckwheat, California*

Eriogonum fasciculatum

Cascara*

Rhamnus purshiana

Catsclaw*

Acacia greggi

Ceanothus*

Ceanothus spp.

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Chamise

Adenostoma fasciculatum

Cherry:

Bitter

Prunus emarginata

Black

Prunus serotina

Pin

Prunus pensylvanica

Coyote brush

Baccharis consanguinea

Creeper, Virginia*

Parthenocissus quinquefolia

Dewberry

Rubus trivialis

Elderberry

Sambucus spp.

Elm*

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Ulmus spp.

Eucalyptus, Bluegum

Eucalyptus glotulus

Hasardia*

Haplopappus squamosus

Hawthorn

Crataegus spp.

Hazel

Corylus spp.

Honeysuckle

Lonicera spp.

(Kuđzu

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Pueraria lobata

' Locust, black*

Robinia pseudoacacia

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Madrone

Arbutus menziesii

Manzanita

Arctostaphylos spp.

Maple:

Red**

Acer rubrum

Sugar

Acer saccharum

Vine*

Acer circinatum

Monkey Flower*

Mimulus guttatus

Oak:

Black*

Quercus velutina

Northern Pin

Quercus palustris

Post

Quercus stellata

Red

Quercus rubra

Southern Red

Quercus falcata

White*

Quercus alba

Persimmon*

Diospyros spp.

Poison Ivy

Rhus radicans

Poison Oak

Rhus toxicodendron

Poplar*, yellow

Liriodendron tulipifera

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Raspberry Rubus spp.

Rose, multiflora
Rosa multiflora

Russian-olive***
Elaeagnus angustifolia

Sage, black
Salvia mellifera

Sagebrush, California Artemisia californica

Salmonberry Rubus spectabilis

Sassafras Sassafras aibidum

Sourwood
Oxydendrum arboreum

Sumac:
Poison*
Rhus vernix

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8mooth: Rhus glabra

Winged*
Rhus copallina

Sweetgum Liquidambar styraciflua

Swordfern*
Polystichum munitum

Tallowtree, Chinese Sapium sebiferum

Tan Oak Lithocarpus densiflorus

Thimbleberry Rubus parviflorus

Tobacco, tree*
Nicotiana glauca

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Some Shind bearing in the state of the state of the state of

Trumpetcreeper Campsis radicans

Willow
Salix spp.

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- * Partial control
- ** See below for control or partial control instructions.
- *** This product is not registered in California for use on Russian-olive.

NOTE: If brush has been mowed or tilled or trees have been cut, do not treat until regrowth has reached the recommended stages of growth.

Apply this product when plants are actively growing and, unless otherwise directed, after full leaf expansion. Use the higher rate for larger plants and/or dense areas of growth. On vines, use the higher rate for plants that have reached the woody stage of growth. Best results are obtained when application is made in late summer or fall after fruit formation.

In arid areas, best results are obtained when application is made in the spring to early summer when brush species are at high moisture content and are flowering.

Ensure thorough coverage when using hand-held equipment. Symptoms may not appear prior to frost or senescence with fall treatments.

Allow 7 or more days after application before tillage, mowing or removal. Repeat treatments may be necessary to control plants regenerating from underground parts or seed. Some autumn colors on undesirable deciduous species are acceptable provided no major leaf drop has occurred. Reduced performance may result if fall treatments are made following a frost.

See ''Directions for Use'', and ''Mixing, Additives, and Application Instructions'' sections of this label for labeled uses and specific application instructions.

Apply this product as follows to control or partially control the following woody brush and trees.

Alder/Dewberry/Honeysuckle/Post Oak/Raspberry—For control, apply 3 to 4 quarts per acre of this product as a broadcast spray or as 4 a 1 to 1 percent solution with hand-held equipment.

, Aspen, quaking/Cherry: bitter, black, pin/Hawthorn /Oak, southern red/Sweetgum/Trumpetcreeper- For control, apply 2 to 3 quarts of this product per acre as a broadcast spray or as a 1 to 1 percent

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solution with hand-held equipment.

Birch/Elderberry/Hazel/Salmonberry/Thimbleberry-For control, apply 2 quarts per acre of this product as a broadcast spray or as a 1 percent solution with hand-held equipment.

Blackberry-For control, apply 3 to 4 quarts per acre of this product as a broadcast spray, or 1 to 1½ percent solution with hand-held equipment. Make application after plants have reached full leaf maturity. Best results are obtained when applications are made in late summer or fall. After berries have set or dropped in late fall, blackberry can be controlled by applying a 3/4 percent solution of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume with hand-held equipment. For control of blackberries after leaf drop and until killing frost or as long as stems are green, apply 3 to 4 quarts of this product in 10 to 40 gallons of water per acre.

Broom: French, Scotch-For control, apply a $1\frac{1}{2}$ to 2 percent solution with hand-held equipment.

Buckwheat, California/Hasardia/Monkey Flower/ Tobacco, tree—For partial control of these species, apply a 1 to 2 percent solution of this product as a foliar spray with hand-held equipment. Thorough coverage of foliage is necessary for best results.

Catsclaw-For partial control, apply as a 1 to 13 percent solution with hand-held equipment.

Coyote Brush-For control, apply a $1\frac{1}{2}$ to 2 percent solution with hand-held equipment when at least 50 percent of the new leaves are fully developed.

Eucalyptus/Bluegum-For control of eucalyptus resprouts, apply a 2 percent solution of this product with hand-held equipment when resprouts are 6 to 12 feet tall. Ensure complete coverage. Apply when plants are growing actively. Avoid application to drought-stressed plants.

Kydzu-For control, apply 4 quarts of this product per acre as a broadcast spray or as a 2 percent solution with hand-held equipment. Repeat applications will be required to maintain control.

Madrone resprouts—For suppression or partial control, apply a 2 percent solution of this product to resprouts less than 3 to 6 Feet tall. Best results are obtained with spring/early summer treatments.

Maple, red**-For control, apply as a 1 to $1\frac{1}{7}$ percent solution with hand-held equipment when at least 50 percent of the new leaves are

fully developed. For partial control, apply 2 to 4 quarts of this product per acre as a broadcast spray.

Maple, sugar/Oak, northern pin/Oak red-For control, apply as a 1 to 1½ percent solution with hand-held equipment when at least 50 percent of the new leaves are fully developed.

Poison Ivy/Poison Oak-For control, apply 4 to 5 quarts of this product per acre as a broadcast spray or as a 2 percent solution with hand-held equipment. Repeat applications may be required to maintain control. Fall treatments must be applied before leaves lose green color.

Rose, multiflora—For control, apply 2 quarts of this product per acre as a broadcast spray or as a 1 percent solution with handheld equipment. Treatments should be made prior to leaf deterioration by leaf-feeding insects.

Sage, black/Sagebrush, California/Chamise/Tallowtree, Chinese-For control of these species, apply a 1 percent solution of this product as a foliar spray with hand-held equipment. Thorough coverage of foliage is necessary for best results.

Tan oak resprouts—For suppression or partial control, apply a 2 percent solution of this product to resprouts less than 3 to 6 feet tall. Best results are obtained with fall applications.

Willow-For control, apply 3 quarts of this product per acre as a broadcast spray or as a 1 percent solution with hand-held equipment.

Other Woody Brush and Trees listed on this label-For partial control, apply 2 to 4 quarts of this product per acre as a broadcast spray or as a 1 to 2 percent solution with hand-held equipment.

NONCROP USES

See ''General Information'' and ''Mixing, Additives and Application Instructions'' sections of this label for essential product performance information and the following ''Noncrop'' sections for specific recommended uses.

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF SPRAY WITH FOLIAGE OF DESIRABLE TURFGRASSES, TREES, SHRUBS, OR OTHER DESIRABLE VEGETATION SINCE SEVERE DAMAGE OR DESTRUCTION MAY RESULT.

NOTE: If spraying areas adjacent to desirable plants, use a shield made of cardboard, sheet metal or plyboard while spraying to help prevent spray from contacting foliage of desirable plants.

Repeat treatments may be necessary to control weeds regenerating from underground parts or seeds.

This product does not provide residual weed control. For subsequent weed control, follow a label-approved herbicide program.

Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used.

INDUSTRIAL, RECREATIONAL AND PUBLIC AREAS

When applied as directed for ''Noncrop Uses'', under conditions described, this product controls annual and perennial weeds listed on this label growing in areas such as airports, ditch banks, dry ditches, dry canals, fencerows, golf courses, highways, industrial plant sites, lumber yards, parking areas, parks, petroleum tank farms and pumping installations, pipelines, power and telephone rights-of-way, railroads, roadsides, schools, storage areas, other public areas and similar industrial or noncrop areas.

For specific rates of application and instructions for control of various annual and perennial weeds and woody brush and trees, see the ''Weeds Controlled'' section of this label.

This product may be applied with recirculating sprayers, shielded applicators, or wiper applicators in any noncrop site specified on this label. See the ''Selective Equipment part of ''Application Equipment and Techniques'' section of this label for informacion on proper use and calibration of this equipment.

TANK MIXTURES FOR

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INDUSTRIAL SITES AND FORESTRY SITE PREPARATIONS

MON-35085 plus OUST™

Use on industrial sites including airports, industrial plants, lumberyards, petroleum tank farms, pumping stations, pipelines, railroads, roadsides, storage areas or other similar sites where bare ground is desired.

This tank mixture may also be used as a site preparation treatment for sites to be planted to jack pine, loblolly pine, red pine, slash pine and Virginia pine.

When applied as directed for ''Noncrop Uses'' under the conditions described, this product plus Oust provides control of annual weeds listed in the ''Weeds Controlled'' section of the label for this product and Oust, and control or partial control of the perennial weeds listed below.

Apply 1 to 2 quarts of this product with 2 to 4 ounces of Oust in 10 to 40 gallons of spray solution per acre as a broadcast spray to actively growing weeds.

This mixture may be applied by aerial equipment in site prep operations. When applied by air, use the recommended rates in 5 to 15 gallons of spray solution per acre.

This product plus Oust tank mixtures may not be applied by air in California.

For control of annual weeds, use the lower rates of these products.

For control of the listed perennial weeds, use the higher rates of both products. For partial control, use the lower rates.

Bahiagrass

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Paspalum notatum

Bermudagrass*

Cynodon dactylon

Broomsedge

Andropogon virginicus

Dock, curly

Rumex crispus

Dogfennel

Eupatorium capilliforium

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Fescue, tall
Festuca arundinacea

Johnsongrass**

Sorghum halepense

Poorjoe**
Diodia teres

Quackgrass
Agropyron repens

Trumpetcreeper*
Campsis radicans

Vaseygrass Paspalum urvillei

Vervain, blue Verbena hastata

*Suppression at the higher rates only.

**Control at the lower rates.

Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used.

™Oust is a trademark of E. I. du Pont de Nemours and Company.

TANK MIXTURES NONCROP SITES

When applied as a tank mixture, this product provides control of the emerged annual weeds and partial control of the emerged perennial weeds listed in this label. When applied as a tank mixture, the following residual herbicides will provide preemergence control of the weeds listed in the individual product labels.

•	MON-35085 plus DIURON	•
•	MON-35085 plus KROVAR™ I	
•	MON-35085 plus KROVAR II	
•	MON-35085 plus RONSTAR 50WP	•
•	MON-35085 plus SIMAZINE.	

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PRINCEP™ CALIBER™ 90

•	MON-35085 plus SIMAZINE 4L	•
•	MON-35085 plus SIMAZINE 80W	•
•	MON-35085 plus SURFLAN™ 75W	-
•	MON-35085 plus SURPLAN AS	•

When tank mixing with residual herbicides, add an agrīculturally approved nonionic surfactant at 0.5 to 1 percent by volume of spray solution. See the ''Mixing, Additives and Application Instructions'' section of this label before preparing these tank mixtures.

Read and carefully observe the label claims, cautionary statements, recommended use rates and all other information on the labels of all products used in these tank mixtures. Use according to the most restrictive label directions for each product in the mixture.

CONTROL OF EMERGED WEEDS

Annual Weeds—Apply 1 quart per acre of this product in these tank mixtures when weeds are less than 6 inches tall and 1½ quarts per acre when weeds are more than 6 inches tall.

Perennial Weeds-For partial control of perennial weeds using these tank mixtures, apply 2 to 5 quarts per acre of this product. Follow the recommendations in the ''Weeds Controlled'' section of this label for stage of growth and rate of application for specific perennial weeds.

PREEMERGENCE WEED CONTROL

The following are the labeled rates for the recommended residual herbicides for noncrop-uses:

<i>F</i>	PRODUCT	—RATE/ACRE
	Diuron, Karmex [™] DF	
	Krovar I	4 to 6 lbs
	Krovar II	- 2-to 5 lbs
	Ronstar 50WP	- 4-to 8 lbs
	Simazine, Princep Caliber 90	5.3-to-11.1-1bs
	Simazine-80W	6 to 12 1/2 1bs
	Simazine 4L	- 4.8 to 10 qts
	Surflan 75W	2-2/3-to-5-1/3-1bs

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For preemergence weed control, r Refer to the individual product labels for specific noncrop sites, rates, carrier volumes and precautionary statements.

Mix only the quantity of spray solution which can be used during the same day. Do not allow these tank mixtures to stand overnight as this may result in reduced weed control.

APPLY THESE TANK MIXTURES THROUGH CONVENTIONAL BROADCAST EQUIPMENT ONLY.

FARMSTEAD WEED CONTROL

When applied as directed for ''Noncrop Uses'', under conditions described, this product controls undesirable vegetation listed on this label around farmstead building foundations, along and in fences, shelterbelts, and for general nonselective farmstead weed control.

For specific rates of application and instructions for control of various annual and perennial weeds, see the 'Weeds Controlled's section of this label.

ORNAMENTALS

THIS PRODUCT IS NOT RECOMMENDED FOR USE AS AN OVER-THE-TOP BROADCAST SPRAY IN ORNAMENTALS.

When applied as directed for the conditions described for 'Nancrop Uses', this product controls undesirable vegetation listed on this label prior to planting ornamentals, in established ernamentals, and within and around greenhouses and shadehouses. When applied as instructed for the conditions described for "Noncrop Uses", this product controls undesirable vegetation listed on this label prior to planting ornamentals, within and around greenhouses and shadehouses, and as a postdirected spray around established ornamentals.

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[™]Princep and Caliber is a trademark of Ciba-Geigy Corporation.

Marmex and Marmex are is a trademarks of E.I. du Pont de Nemours and Company.

[&]quot;Ronstar is a trademark of Rhone-Poulenc, Inc.

[&]quot;Surflan is a trademark of Elanco Products Company.

For specific rates of application and instructions for control of various annual and perennial weeds, see the ''Weeds Controlled'' section of this label.

Where repeat applications are necessary, do not exceed 10.6 quarts of this product per acre per year.

site Preparation—Following preplant applications of this product, any ornamental species may be planted. Precautions should be taken to protect nontarget plants during site preparation applications.

Greenhouse/Shadehouse Use-This product may be used to control weeds listed on this label which are growing in greenhouses. Desirable vegetation must not be present during application and air circulation fans must be turned off.

Postdirected Spray-Use as a postdirected spray toward the base of around established woody ornamentals species such as those listed below. Care must be exercised to avoid contact of spray, drift or mist with foliage of or green bank of established ornamental species.

Arborvitae
Thuja spp.

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Azalea Rhododendron spp.

Boxwood

Buxus spp.

Crabapple
Malus spp.

Euonymus spp.

Fir
Abies spp.
*Pseudotsuga spp.

Jojoba Simmondsia chinensis

Hollies
Ilex spp.

Lilac Syringa spp.

Magnolia

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Magnolia spp.

Maple

Acer spp.

Oak

Quercus spp.

Privet

Ligustrum spp.

Pine

Pinus spp.

Spruce

Picea spp.

Yew

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Taxus spp.

SILVICULTURAL SITES, RIGHTS-OF-WAY and CHRISTMAS TREES

NOTE: NOT RECOMMENDED FOR USE AS AN OVER-THE-TOP BROADCAST SPRAY IN SILVICULTURAL NURSERIES, OR CHRISTMAS TREE PLANTATIONS.

When applied as directed for ''Noncrop Uses'' under conditions described, this product controls undesirable vegetation listed on this label. This product also suppresses or controls undesirable vegetation listed on this label when applied at recommended rates for release of established coniferous species listed on this label.

For specific rates of application and instructions for control of various brush, annual and perennial weeds, see the ''Weeds Controlled'' section of this label. For specific rates of application for release of listed coniferous species, see the ''Conifer Release'' part of this section of the label.

Where repeat applications are necessary, do not exceed 10.6 quarts of this product per acre per year.

Aerial Application—This product may be applied using aerial spray equipment for silvicultural site preparation, conifer release and rights—of—way treatments. See the ''Application Equipment and Techniques'' part of the ''Mixing, Additives and Application Instructions'' section of this label for information on how to properly spray apply this product by air.

DO NOT APPLY THIS PRODUCT BY AIR TO RIGHTS-OF-WAY SITES IN THE

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STATE OF CALIFORNIA.

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In order to reduce the aerial application drift hazard to aquatic sites*, to nontarget sites, or any site containing desirable vegetation, always maintain appropriate buffer zones. A buffer zone of the following minimum distances should be maintained:

- Helicopters using a Microfoil[™] boom, a Thru-Valve[™] boom (TVB-45), or equivalent drift control systems, should maintain at least a 50-foot buffer zone.
- When using other aerial equipment:
- Maintain at least a 75-foot buffer zone for applications using 2 quarts or less per acre of this product.
- Maintain at least a 125-foot buffer zone for applications using more than 2 quarts per acre of this product.
- Maintain at least a 400-foot buffer zone for applications on rights-of-way when applied from 75 feet or more above ground level.

These distances should be increased if conditions favoring drift exist.

* Aquatic sites include all lakes, ponds, and streams used for significant domestic purposes or angling.

Microfoil is a trademark of Union Carbide Agricultural Products, Inc.

Thru-Valve is a trademark of Waldrum Specialties, Inc.

SITE PREPARATION

Following preplant applications of this product, any silvicultural species may be planted.

POSTDIRECTED SPRAY

In established silvicultural sites, use as a spray on the foliage of undesirable vegetation. Care must be exercised to avoid contact of spray, drift or mist with foliage or green bark of desirable species.

CONIFER RELEASE

For release, apply only where conifers have been established for more than one year. Vegetation should not be disturbed prior to

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treatment or until visual symptoms appear after treatment. Symptoms of treatment are slow to appear, especially in woody species treated in late fall. Injury may occur to conifers treated for release, especially where spray patterns overlap or the higher rates are applied or when applications are made during periods of active conifer growth. Do not use additional surfactant with conifer release applications.

Applications must be made after formation of final conifer resting buds in the fall or prior to initial bud swelling in spring. Some autumn colors on undesirable deciduous species are acceptable provided no major leaf drop has occurred. Use the following rates for conifer release to control or partially control the weeds listed in the ''Weeds Controlled'' section of this label.

For release of the following conifer species:

Douglas fir Pseudotsuga menziesii

Abies spp.

Hemlock Tsuga spp.

Pines* Pinus spp.

Spruce Picea spp.

Includes all species except eastern white pine, loblolly pine or slash pine.

Apply $1\frac{1}{2}$ to 2 quarts of this product per acre except in Washington and Oregon, west of the crest of the Cascade Mountains. For spring treatments west of the crest of the Cascade Mountains; apply 1 quart of this product per acre before conifer bud swell for control of annual weeds. For fall treatments in Washington and Oregon, west of the crest of the Cascade Mountains, apply 1 to 1 quarts of this product per acre before any major leaf drop of deciduous species.

For release of western hemlock, apply 1 quart of this product per

For release of the following conifer species:

Loblolly pine Pinus taeda

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Eastern white pine Pinus strobus

Slash pine Pinus elliottii

Late Season Application—Apply 1½ to 2 quarts of this product in a minimum of 5 gallons of spray solution per acre during early autumn. Applications made prior to September 1 or when conditions are conducive to rapid growth of conifers will result in Create the potential for increased injury in the form of tip and/or needle burn. Injury may decrease with later applications. Some autumn colors are acceptable at time of application. Apply prior to frost or leaf drop of undesirable plants. Applications made according to label directions will release loblolly pine, eastern white pine and slash pine by reducing competition from the following species:

Ash

Fraxinus spp.

Cherry:

Black

Prunus serotina

Pin

Prunus pensylvanica

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Ulmus spp.

Hawthorn

Crataegus spp.

Locust, black

Robina pseudoacacia

Maple, red

Acer rubra

Oak:

Black

; Quercus velutina

Doct

Quercus stellata

Southern Red

Quercus falcata

White

Quercus alba.

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Persimmon

Diospyros spp.

Poplar, yellow

Liriodendron tulipfera

Sassafras

Sassafras albidum

Sourwood

Oxydendrum arboreum

Sumac:

Poison

Rhus vernix

Smooth

Rhus glabra

Winged

Rhus copallina

Sweetqum

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Liquidambar styraciflua

Apply only to those sites where woody brush and trees listed in this label constitute the majority of the undesirable species.

> MON-35085 plus Oust Tank Mixtures for Conifer Release from Herbaceous Weeds

To release loblolly pines from herbaceous weeds, tank mixtures of this product with Oust will provide control of annual weeds listed in the ''Weeds Controlled'' section of this and the Oust label, and partial control of the perennial weeds listed below.

Apply 16 to 24 fluid ounces of this product with 2 to 4 ounces of Oust in 10 to 30 gallons of spray solution per acre. Make application to actively growing weeds as a broadcast spray over the top of the young loblolly pines.

This product plus Oust tank mixtures may not be applied by air in California.

This tank mixture may be applied using aerial equipment. When applying by air, use the recommended rate in 5 to 15 gallons of spray solution per acre.

For control of annual weeds below 12 inches in height (or runner length on annual vines), use the low rates of both products. Use

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the higher rates of both products when annual weeds are in more advanced stages of growth and approaching flower or seed formation.

Use the higher rates of both products for partial control of the following perennial weeds. Use the lower rates for suppression of growth.

Bahiagrass

Paspalum notatum

Broomsedge

Andropogon virginicus

Dock, curly

Rumex crispus

Dogfennel

Eupatorium capilliforium

Fescue, tall

Festuca arundinacea

Johnsongrass**

Sorghum halepense

Poorjoe**

Diodia teres

Trumpetcreeper *

Campsis radicans

Vaseygrass

Paspalum urvillei

Vervain, blue

Verbena hastata

- *Suppression at the higher rates only.
- *#Control at the higher rates.

Pine damage may occur or can be accentuated if treatment takes place when young trees are under stress from drought, flood water, insects or disease.

Read and observe the cautionary statements and all other information appearing on the label of all herbicides used.

NOTE TO USER

This product must not be used in areas where adverse impact on

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Federally designated endangered/threatened plant or aquatic species is likely.

Prior to making applications, the user of this product must determine that no such species are located in or immediately adjacent to the area to be treated.

CUT STUMP TREATMENTS

Woody vegetation may be controlled by treating freshly cut stumps of trees and resprouts with this product. Apply this product using suitable equipment to ensure coverage of the entire cambium. Cut vegetation close to the soil surface. Apply a 50 to 100 percent solution of this product to the freshly cut surface immediately after cutting. Delays in application may result in reduced performance. For best results, applications should be made during periods of active growth and full leaf expansion.

When used according to directions for cut stump application, this product will CONTROL, PARTIALLY CONTROL or SUPPRESS many types of woody brush and tree species, some of which are listed below:

Alder
Alnus spp.

Eucalyptus/Bluegum
Eucalyptus glotulus

Madrone Arbutus menziesii

Oak
Quercus spp.

Reed, giant
Arundo donax

Saltcedar Tamarisk spp.

SyeetqumLiquidambar styraciflua

Tan Oak
Lithocarpus densiflorus

INJECTION AND FRILL APPLICATIONS

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Woody vegetation may be controlled by injection or frill application of this product. Apply this product using suitable equipment which must penetrate into the living tissue. Apply the equivalent of 1 ml of this product per each 2 to 3 inches of trunk diameter (DBH). This is best achieved by applying 50 to 100 percent concentration of this material either to a continuous frill around the tree or as cuts evenly spaced around the tree below all branches. As tree diameter increases in size, better results are achieved by applying diluted material to a continuous frill or more closely spaced cuttings. Avoid application techniques that allow runoff to occur from frill or cut areas in species that exude sap freely after frills or cutting. In species such as this, make frill or cut at an oblique angle so as to produce a cupping effect and use undiluted material. For best results, application should be made during periods of active growth and after full leaf expansion.

This treatment WILL CONTROL the following woody species:

Oak

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Quercus spp.

Poplar

Populus spp.

Sweetgum

Liquidambar styraciflua

Sycamore

Platanus occidentalis

This treatment WILL SUPPRESS the following woody species:

Black gum

Nyssa sylvatica

Dogwood

Cornus spp.

Hickory

¿Carya spp.

Maple, red

Acer rubrum

TURFGRASSES AND GRASSES FOR SEED PRODUCTION

PREPLANT AND RENOVATION

When applied as directed for ''Noncrop Uses'', under conditions

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described, this product controls most existing vegetation prior to the planting or renovation of either turfgrasses or grass seed production areas.

For specific rates of application and instructions for control of various annual and perennial weeds, and woody brush and trees, see the ''weeds Controlled'' section of this label.

For maximum control of existing vegetation, delay planting to determine if any regrowth from escaped underground plant parts occurs. Where repeat treatments are necessary, sufficient regrowth must be attained prior to application. For warm-season grasses, such as bermudagrass, summer or fall applications provide best control.

DO NOT DISTURB SOIL OR UNDERGROUND PLANT PARTS BEFORE TREATMENT. Tillage or renovation techniques such as vertical mowing, coring or slicing should be delayed for 7 days after application to allow proper translocation into underground plant parts.

TURFGRASSES

Where existing vegetation is growing in a field or unmowed situation, apply this product to actively growing weeds at the stages of growth given in the ''Weeds Controlled'' section of this label.

Where existing vegetation is growing under mowed turfgrass management, apply this product after omitting at least one regular mowing to allow sufficient growth for good interception of the spray.

Desirable turfgrasses may be planted following the above procedures.

GRASSES FOR SEED PRODUCTION

Apply this product to actively growing weeds at the stages of growth given in the ''Weeds Controlled'' section of this label prior to planting or renovation of turf or forage grass areas grown for seed production.

DO NOT feed or graze treated areas within 8 weeks after application.

ANNUAL WEED CONTROL IN DORMANT BERMUDAGRASS AND BAHIAGRASS TURF

When applied as directed for ''Noncrop Uses'' under the conditions

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described, this product will provide control or suppression of many winter annual weeds and tall fescue for effective release of dormant bermudagrass and bahiagrass turf. Refer to the rate table for MON-35085 alone under the ''Release of Bermudagrass and Bahiagrass'' section of this label for recommended rates and volumes on the species to be suppressed or controlled. Treat only when turf is dormant and prior to spring greenup. Spot treatments or broadcast applications of this product in excess of 16 fluid ounces per acre may result in injury or delayed greenup in highly maintained turfgrass areas; i.e., golf courses, lawns, etc. DO NOT APPLY TANK MIXTURES of Roundup this product plus Oust in highly maintained turfgrass areas.

RELEASE OF BERMUDAGRASS OR BAHIAGRASS

NOTE: Use only in areas where bermudagrass or bahiagrass are desirable ground covers and where some temporary injury or discoloration can be tolerated. Use Roundup plus Oust tank mixtures of this product plus Oust only on railroads, highways, utility plant sites, or other right-of-way areas.

When applied as directed for ''Noncrop Uses'' under the conditions described, this product will provide control or suppression of many winter annual weeds and tall fescue for effective release of dormant bermudagrass or bahiagrass. This product may be tank-mixed with Oust as recommended for residual control. Make applications to dormant bermudagrass or bahiagrass. Roundup plus Oust Tank mixtures of this product plus Oust may delay greenup. To avoid delays in greenup and minimize injury, do not add more than 1 ounce per acre of Oust on bermudagrass or more than 1 ounce per acre on bahiagrass, or treat when these grasses are in a semi-dormant condition.

For best results on winter annuals, treat when plants are in an early growth stage (below 6 inches in height) after most have germinated. For best results on tall fescue, treat when fescue is in or beyond the 4 to 6-leaf stage.

WEEDS CONTROLLED

Rate recommendations for control or suppression of winter annuals and tall fescue are listed below:

Apply the recommended rates of this product alone or as a tank mixture in 10 to 25 gallons of water, plus 0.5 to 1 percent nonionic surfactant by total spray volume per acre.

For the best recommendation for the mixture of weeds within your geographic areas, contact your Monsanto sales representative.

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WEEDS CONTROLLED OR SUPPRESSED WITH MON-35085 ALONE*

NOTE:

C = Control
S = Supression

	MOI	1-350	85 F	LUID	oz/	ACRE
WEED SPECIES	8	12	16	24	32	64
Barley, little Hordeum pusilium	S	С	С	С	С	С
Bedstraw, catchweed Galium aparine	S	С	С	С	С	С
Bluegrass, annual Poa annua	s	С	С	С	С	С
Chervil Chaerophyllum tainturieri	S	С	С	С	С	ć
Chickweed, common Stellaria media	S	С	С	С	С	С
Clover, crimson Trifolium incarnatum	•	S	S	С	С	С
Clover, large hop Trifolium campestre	•	S	S	С	С	С
Fescue, tall Festuca arundinaceae	•	•	•	•	S	S
Geranium, Carolina _{Geranium carolinianum	•	•	S	S	C	C
Henbit Lamium amplexicaule	•	S	С	С	C ,	С
Ryegrass Italian Lolium multiflorum		•	s	С	c	С
Speedwell, corn Veronica arvensis	<u>:</u> S	С	С	С	С	С

Vetch, common Vicia sativa s c c c`

 $\{x_i, x_i\}_{i \in \mathcal{A}_{i+1}} \sum_{i \in \mathcal{A}_{i+1}} x_i = x_i$

These rates apply only to sites where an established competitive turf is present.

WEEDS CONTROLLED OR SUPPRESSED WITH MON-35085 PLUS OUST*

NOTE: C = Control

S = Suppression

	MOI	1-350	85 +	OUS	T (€	Z/A €	:RE)
MON-35085 (FL. OZ/A) WEED + SPECIES OUST (OZ/A)	8 + }	12 + - - - -	+	16 + 1	16 + ½		
Barley, little Hordeum pusilium	Ċ	c	С	С	С	С	С
Bedstraw, catchweed Galium aparine	С	С	С	С	С	С	С
Bluegrass, annual Poa annua	s	С	С	С	С	С	·C
Chervil Chaerophyllum tainturierí	С	С	С	С	С	С	С
Chickweed, common Stellaria media	s	С	С	С	С	С	С
Clover, crimson Trifolium incarnatum	S	S	S	s	С	С	С
Clover, large hop Trifolium campestre	•	•	s	s	s	С	С
Fescue, tall Festuca arundinaceae	•	•	•	•	•	s	S
Geranium, Carolina Geranium carolinianum	•	s	s	С	C	С	С
Henbit Lamium amplexicaule	•	s	С	c ·	С	С	С

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Ryegrass, Italian Lolium multiflorum	•	S	S	C	С	С	С
Speedwell, corn Veronica arvensis	s	С	С	С	С	С	С
Vetch, common Vicia sativa	С	С	С	С	С	С	С

* These rates or mixtures of rates apply only to sites where an established competitive turf is present.

RELEASE OF ACTIVELY GROWING BERMUDAGRASS

When applied as directed, this product will aid in the release of bermudagrass by providing control of annual species listed in the ''Weeds Controlled'' section of this and the Oust label, and suppression or partial control of certain perennial weeds.

For control or suppression of those annual species listed on this label, use 1 to 3 pints of this product as a broadcast spray in 10 to 25 gallons of spray solution per acre. Use the lower rate when treating annual weeds below 6 inches in height (or length of runner in annual vines). Use the higher rate as size of plants size increases or as they approach flower or seedhead formation.

Use the higher rate of this product for partial control of the following perennial species. Use the lower rates for suppression of growth. For best results, see the ''Weeds Controlled'' section of this label for proper stage of growth.

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Bahiagrass

Paspalum notatum

Bluestem, silver
Andropogon saccharoides

Fescue, tall *Festuca arundinacea

Johnsongrass**
 Sorghum halepense

Trumpetcreeper*
Campsis radicans

Vaseygrass

Paspalum urvillei

*Suppression at higher rates only.

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**Control at the higher rates.

This product may be tank-mixed with Oust. If tank-mixed, use no more than 1 to 2 pints per acre of Roundup herbicide this product with 1 to 2 ounces of Oust per acre.

Use the lower rates of both mixtures to control annual weeds below 6 inches in height (or runner length in annual vines) that are listed in the ''Weeds Controlled'' section of this booklet and the Oust label. Use the higher rates as annual weeds increase in size and approach the flower or seedhead stages.

Use the higher rates of this product to provide partial control of the following perennial weeds. Use the lower rates for suppression of growth.

Bahiagrass

Paspalum notatum

Bluestem, silver
Andropogon saccharoides

Broomsedge

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Andropogon virginicus

Dock, curly

Rumex crispus

Dogfennel

Eupatorium capilliforium

Fescue, tall

Festuca arundinacea

Johnsongrass*

Sorghum halepense

Poorjoe**

*Diodia teres

Trumpetcreeper*

Campsis radicans

Vaseygrass

Paspalum urvillei

Vervain, blue

Verbena hastata

*Suppression at higher rates only.

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**Control at the higher rates.

Use only on well-established bermudagrass. Bermudagrass injury may result from the treatment but regrowth will occur under moist conditions. Repeat applications in the same season are not recommended, since severe injury may result.

Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used.

COOL SEASON TURF GROWTH REGULATION

When applied as directed, this product will suppress growth and seedhead development of listed turf species in industrial sites.

This product is recommended for management of coarse turfs on roadside rights-of-way or other industrial areas. Do not use on high-quality turfs or other areas where some turf color changes cannot be tolerated. Slight turf discoloration may occur but turf will regreen and regrow under moist conditions as effects of this product wear off.

Apply 4 to 6 fluid ounces of this product per acre alone or in a recommended tank mixture. Spray volumes of 10 to 40 gallons per acre are recommended.

When using this product, mix 2 quarts of a nonionic surfactant per 100 gallons of spray solution.

This product can be used for growth and seedhead suppression of:

Tall Fescue Smooth Brome

For best results, apply this product in a recommended tank mixture to actively growing turfgrasses after greenup in the spring of the year. For suppression of seedheads, applications must be made before boot-to-seedhead stage of development. Applications made from seedhead emergence until maturity may result in turf discoloration or injury.

After mowing or removal of seedheads, this product in a recommended tank mixture may also be used to suppress the growth of certain turfgrasses. Allow turf to recover from stress caused by neat, drought, or mowing before making applications. Applications cade to turf under stress may increase the potential for discoloration or injury.

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ANNUAL GRASSES

For growth suppression of some annual grasses such as annual ryegrass, wild barley and wild oats, apply 3 to 4 fluid ounces of this product in 10 to 40 gallons of spray solution per acre. Applications should be made when annual grasses are actively growing and before the seedheads are in the boot stage of development. Treatments made after seedhead emergence may cause injury to the desired grasses.

TANK MIXTURES

For the following tank mixtures, consult each product label for weeds controlled and the correct stage of application. Do not treat turf under stress.

Tank mixtures plus 2,4-D Amine

For additional weed control benefits, up to 1 quart 1 pound a.1. per acre of 2,4-D amine may be added to the following tank mixtures. Consult the label for 2,4-D amine for weeds controlled.

TALL PESCUE

MON-35085 plus Telar™

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For suppression of tall fescue growth and seedheads, and control or partial control of some annual weeds, apply this tank mixture prior to boot-to-seedhead stage greenup and development. Use up to { ounce of Telar per acre.

This tank mixture can also be applied after mowing or removal of tall fescue seedheads for turf growth suppression. Make only one of the above applications per growing season.

MON-35085 plus Oust™

For suppression of tall fescue growth and seedheads, and control or partial control of some annual weeds, apply this tank mixture after greenup and prior to boot-to-seedhoad stage development. Use up to 1/4 ounce of Oust per acre.

MON-35085 plus Escort™

This tank mixture can be applied after mowing or removal of tall fescue seedheads for turf growth suppression and control or partial control of some annual weeds. Use up to 1/3 ounce of Escort per acre.

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SMOOTH BROME

MON-35085 plus Oust

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For suppression of smooth brome growth and seedheads and control or partial control of some annual weeds, apply this tank mixture after greenup and prior to boot-to-seedhead stage of development. Use up to 1/4 ounce of Oust per acre.

*Escort and Telar are trademarks of E. I. du Pont de Nemours and Company.

BAHIAGRASS SEEDHEAD AND VEGETATIVE SUPPRESSION

When applied as directed in the indicated noncrop areas (roadsides, airports, golf course roughs, and plant sites), this product will provide significant inhibition of seedhead emergence and will suppress vegetative growth for a period of approximately 45 days with single applications and approximately 120 days with sequential applications.

Apply this product 1 to 2 weeks after full greenup of bahiagrass or after the bahiagrass has been mowed to a uniform height of 3 to 4 inches. Applications must be made prior to seedhead emergence. Apply 6 fluid ounces per acre of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 10 to 25 gallons of water per acre.

Sequential applications of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume may be made at approximately 45 day intervals to extend the period of seedhead and vegetative growth suppression. For continued seedhead suppression, sequential applications must be made prior to seedhead emergence. Apply no more than 2 sequential applications per year. As a first sequential application, apply 4 fluid ounces of this product per acre plus nonionic surfactant. A second sequential application of 2 to 4 fluid ounces per acre plus nonionic surfactant may be made approximately 45 days after the last application.

A tank mixture of Roundup this product plus Oust may be applied only on roadsides for seedhead inhibition and vecetative suppression. Apply 6 fluid ounces per acre of this oroduct plus 0.25 ounce per acre of Oust, plus 0.5 to 1 percent motionic surfactant by total spray volume 1 to 2 weeks following an iritial spring mowing. When using Roundup this product plus Oust for suppression of bahiagrass, make only one application per year.

CROPPING SYSTEMS

When applied as directed for ''Cropping Systems', under the conditions described, this product controls annual and perennial weeds listed on this label, prior to the emergence of direct seeded crops or prior to transplanting of crops listed on this label.

See ''General Information'' and ''Mixing, Additives and Application Instructions'' sections of this label for essential product performance information.

See the following ''Cropping Systems'' sections for specific recommended uses.

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF SPRAY WITH FOLIAGE, GREEN STEMS OR FRUIT OF DESIRABLE CROPS, PLANTS, TREES OR OTHER DESIRABLE VEGETATION SINCE SEVERE DAMAGE OR DESTRUCTION MAY RESULT.

Repeat treatments may be necessary to control weeds regenerating from underground parts or seed. Except as otherwise specified on this label, repeat treatments must be made before the crop emerges in accordance with the instructions of this label.

Except as otherwise specified in a crop section of this label, the combined total of all treatments must not exceed 8 quarts per acre of this product per year.

Do not plant subsequent crops other than those on the label for 30 days following application.

For other cropping systems, except following spot treatment in forage grasses and legumes, d Do not harvest or feed treated crops vegetation for 8 weeks after following application. Allow 14 days following Following spot treatment or selective equipment use, allow 14 days before grazing domestic livestock or harvesting forage grasses and legumes.

When applied as directed for ''Cropping Systems''; under the conditions described, this product controls annual and perennial weeds listed on this label, prior to the emergence of direct sheded crops or prior to transplanting of crops listed on this label.

ALFALFA*
ARTICHOKE,
JERUSALEM
ASPARAGUS*
ATEMOYA
BARLEY*
BEANS (All)
BEET GREENS

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BEETS (Red, Sugar) BLACKBERRY BLUEBERRY BOYSENBERRY BREADFRUIT BROCCOLI CABBAGE CANISTEL CARAMBOLA CARROT CAULIPLOWER CELERY CHICORY CORN (All) * COTTON* CRANBERRY CUCUMBER*** CURRANT DATES DEWBERRY EGGPLANT*** ELDERBERRY FORAGE GRASSES* FORAGE LEGUMES* GARLIC*** GOOSEBERRY GOURDS *** HORSERADISH HUCKLEBERRY JABOTICABA JACKFRUIT KALE LENTILS LETTUCE LOGANBERRY LONGAN LYCHEE MELONS*** MUSTARD GREENS OATS* OKRA **OLALLIEBERRY** ONION PARSNIPS PASSION FRUIT PEANUTS PEAS (All) PEPPER*** PERSIMMONS PINEAPPLE**** POTATO (Irish, Sweet) PUMPKIN*** RADISH

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RASPBERRY (Black, Red)

RICE** RUTABAGA SAPODILLA SAPOTE (Black, Mamey, White) SORGHUM (Milo) * SOURSOP SOYBEANS* SPINACH SOUASH*** (Summer, Winter) SUGAR APPLE TAMARIND TOMATILO ** TOMATOES * * * † TURNIPS WATERMELON*** WATERCRESS*** WHEAT * YAMS

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- Spot treatments may be applied in these crops.
- ** Do not treat rice fields or levees when the fields contain flood water.
- *** Apply only prior to planting. Allow at least 3 days between application and planting.
- ****Do not feed or graze treated pineapple forage following application.
 - † Use is restricted to direct seeded crops only.

When transplanting applying this product prior to transplanting crops into plastic mulch, care must be taken to remove residues of this product from the plastic prior to transplanting. Residues can be removed by 1/2 inch natural rainfall or by applying water via a sprinkler irrigation system.

NOTE: This product is not registered in California for use on atemoya, breadfruit, canistel, carambola, jaboticaba, jackfruit, longan, lychee, parsnips, passion fruit, sapodilla, sapote, sugar apples, tamarind, and yams and parsnips.

Spot Treatment (Only those crops with ''*'' can be spot treated.)—Applications in growing crops must be made prior to heading of small grains and milo, initial pod set in soybcans, silking of corn, or boll opening on cotton.

For forage grasses and forage legumes see ''Spot Treatment'' in the ''Pastures'' section of ''Cropping Systems'' in this label.

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For dilution and rates of application using boom or hand-held equipment, see ''Mixing, Additives and Application Instructions'' and ''Weeds Controlled'' sections of this label.

NOTE: FOR FORAGE GRASSES AND FORAGE LEGUMES, NO MORE THAN ONE-TENTH OF ANY ACRE SHOULD BE TREATED AT ONE TIME. FOR ALL OTHER CROPS, DO NOT TREAT MORE THAN 10 PERCENT OF THE TOTAL FIELD AREA TO BE HARVESTED.

THE CROP RECEIVING SPRAY IN TREATED AREA WILL BE KILLED. TAKE CARE TO AVOID DRIFT OR SPRAY OUTSIDE TARGET AREA FOR THE SAME REASON.

Selective Equipment—This product may be applied through recirculating sprayers, shielded applicators, or wiper applicators in cotton and soybeans. Shielded and wiper applicators may also be used in tree crops and grapes. Wiper applicators may be used in rutabagas, forage grasses and forage legumes, including pasture sites and grain sorghum (milo).

See the ''Selective Equipment'' part of the ''Application Equipment and Techniques'' section of this label for information on proper use and calibration of this equipment.

Allow at least the following time intervals between application and harvest:

Careambola, Cherry, Citrus, Grapes, Dates,
Jaboticaba, Jackfruit, Longan, Lychee, Passion
Fruit Pear, Persimmons, Rutabagas, Sapodilla,

* Do not use roller applicators. Do not feed or graze treated milo fodder. Do not ensile treated vegetation.

ASPARAGUS

When applied as directed for ''Cropping Systems'' under the conditions described, this product controls weeds listed on this label in asparagus.

For specific rates of applications and instructions for control of various annual and perennial weeds, see the ''Weeds Controlled'' section of this label.

Prior to Crop Emergence-Apply this product prior to crop emergence for the control of emerged labeled annual and perennial weeds. DO NOT APPLY WITHIN A WEEK BEFORE THE FIRST SPEARS EMERGE.

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Spot Treatment-Apply this product immediately after cutting, but prior to the emergence of new spears. Do not treat more than 10 percent of the total field area to be harvested. Do not harvest within 5 days of treatment.

Postharvest—Apply this product after the last harvest and all spears have been removed. If spears are allowed to regrow, delay application until ferns have developed. Delayed treatments should be applied as directed or shielded spray in order to avoid contact of the spray with ferns, stems or spears. Direct contact of the spray with the asparagus may result in serious crop injury.

NOTE: Select and use recommended types of spray equipment for postemergence postharvest applications. A directed spray is any application where the spray pattern is aligned in such a way as to avoid direct contact of the spray with the crop. A shielded spray is any application where a physical barrier is positioned and maintained between the spray and the crop to prevent contact of spray with the crop.

BERRIES AND SMALL FRUITS

For cranberries, apply after fruit set and no later than 30 days before harvest.

For other berries, apply as a preplant broadcast application, or as a directed spray or wiper application post-planting.

Wiper applicators may be used in cranberries in accordance with instructions in this section.

See ''General Information'' and ''Mixing, Additives and Application Instructions'' sections of this label for essential product performance information.

See the ''Selective Equipment'' part of the ''Application Equipment and Techniques'' section of this label for information on recommended use and calibration of this equipment.

For Wick or other Wiper Applicators—Mix 1 gallon of this product in 4 gallons of water to prepare a 20 percent solution. Apply the solution to emerged weeds. Apply after cranberry fruit set and no later than 30 days before harvest.

In severe infestations, reduce equipment ground speed to ensure that adequate amounts of this product are wiped on the weeds. A second treatment in the opposite direction may be beneficial.

Do not permit herbicide solution to contact desirable vegetation, including green shoots, canes, or foliage.

FALLOW AND REDUCED

TILLAGE SYSTEMS

FOR AERIAL APPLICATION IN CALIFORNIA, REFER TO SUPPLEMENTAL LABEL.

Use this product in fallow and reduced tillage systems for control of annual weeds prior to emergence of crops listed in this label. Refer to the ''Weeds Controlled'' section of this label for specific rates and instructions. This product may be applied using ground or aerial spray equipment. See the ''Application Equipment and Techniques' section of this label for instructions.

TANK MIXTURES

- MON-35085 plus BANVEL plus NONIONIC SURFACTANT
 - MON-35085 plus 2,4-D AMINE plus NONIONIC SURFACTANT
- MON-35085 plus GOAL™ plus NONIONIC SURFACTANT

DO NOT APPLY BANVEL, OR 2,4-D AMINE TANK MIXTURES BY AIR IN CALIFORNIA.

Applications of 2,4-D or Banvel must be made at least 7 days prior to planting corn. Applications of 2,4-D must be made at least 30 days prior to planting soybeans.

The additions of Banvel in a mixture with this product may provide short-term residual control of selected weed species. Some crop injury may occur if Banvel is applied within 45 days of planting. Refer to the Banvel and 2,4-D labels for cropping restrictions and other use instructions.

MON-35085 plus Goal Tank Mixtures

This product alone or in tank mixtures with Goal plus 0.5 to 1 percent nonionic surfactant by total spray volume will provide control of those weeds listed below.

> . Make applications when weeds are actively growing and at the recommended stages of growth. Avoid spraying when weeds are subject to moisture stress, when dust is on the foliage or when straw canopy covers the weeds.

MON-35085 12 fluid oz/acre

18"* Wheat 12" Barley

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Bluegrass,
annual 6"
Barnyardgrass 6"
Rye 6"

MON-35085 16 fluid oz/acre

Annual grasses at left plus:

Ryegrass, 611 annual 611 Chickweed 611 Groundsel Marestail 611 6 ¹¹ Rocket, London 6" Shepherdspurse 12" Crabgrass Johnsongrass, 12" seedling Lambsquarters 12" 12" Oats, wild 12" Pigweed, redroot Mustards 12"

MON-35085 12 fluid oz/acre

MON-35085 16 fluid oz/acre

GOAL** 2 to 4 fluid oz/acre GOAL** 2 to 4 fluid oz/acre

Annual grasses above plus:

Annual weeds above plus:

Cheeseweed,
common 3"
Chickweed 3"
Groundsel 3"
Rocket, London 6"
Shepherdspurse 6"

Cheeseweed,
common 6"
Groundsel 6"
Chickweed 12"
Rocket, London 12"
Shepherdspurse 12"

* Maximum height or length in inches.

These recommended tank mixtures may be applied using ground or aerial spray equipment. Refer to the ''Weeds Controlled'' section of this label for specific rates and instructions.

ECOFARMING SYSTEMS

pillina.

^{**} Use the higher rate when weeds approach maximum recommended height or stands are dense.

^{&#}x27; ™Goal is a trademark of Rohm and Haas Company.

The recommendations made in this section are not registered for use in California.

The Ecofarming System consists of the following rotation: winter wheat, corn/sorghum, ecofallow.

Use the following tank mixtures for control of emerged annual weeds before planting corn or sorghum in the Ecoferming System.

MON-35085 at 16 to 20 fluid ounces per acre

plus

2,4-D at 0.375 to 0.5 pound a.1. per acre

plus

ATRAZINE at 0.75 to 1 pound a.i. per acre

plus

LASSO® at 2.5 to 3 quarts per acre

The above tank mixture should be applied in 28-0-0 or 32-0-0 liquid fertilizer carrier at 20 to 30 gallons per lacre. The liquid fertilizer may be diluted with water to achieve the desired carrier volume.

WEEDS CONTROLLED - The following weeds, up to a maximum height of thrones, will be controlled:

Brome, downy Bromis tectorum

Cheat

Bromus secalinus

Foxtail, green Setaria viridis

Foxtail, yellow Setaria lutescens

Kochia*

- Kochia/scoparia

Lettuce, prickly Lactuce serriols

Piqweed, redroot
Amaranthus retroflexus

Thistle, Russian Salsolo kali

Wheat, volunteer Triticum aestivum

*Eor improved control of kochia, add 4 fluid ounces per acre (0.125 pound a.i. per acre) of Banvel to the above tank mixture.

(MON-35085 91, Sec.JB)

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Risk of crop injury from 2,4-D or Banvel can be reduced by applying this treatment 7 to 14 days before planting.

Refer to the label booklet for Lasso herbicide for preemergence weed control achieved by this tank mixture.

Refer to the specific product labels for crop rotation restrictions and cautionary statements for all products used in these tank mixtures.

@Lasso is a registered trademark of Monsanto Company. _

AID TO TILLAGE

This product, when used in conjunction with preplant tillage practices, will provide control of downy brome, cheat, volunteer wheat, tansy mustard and foxtail. Apply 8 fluid ounces of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre. Make applications when weeds are actively growing and before they are 6 inches in height. Application must be followed by conventional tillage practices no later than 15 days after treatment and before regrowth occurs. Allow at least 1 day after application before tillage. Tank mixtures with residual herbicides may result in reduced performance.

PASTURES

Apply this product prior to planting forage grasses and legumes.

Pasture or Hay Crop Renovation-When applied as a broadcast spray, this product controls the annual and perennial weeds listed in this label prior to planting forage grasses or legumes. Remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting.

Spot Treatment-When applied as a spot treatment as recommended, this product controls annual and perennial weeds listed in this label which are growing in pastures, forage grasses and forage legumes composed of bahiagrass, bermudagrass, bluegrass, brome, fescue, orchardgrass, ryegrass, timothy, wheatgrass, alfalfa or clover.

wiper Application—When applied as directed, this product controls or suppresses the weeds listed under ''Wiper Applicators'' in the ''Selective Equipment'' section of this label.

For spot treatment and wiper application, apply in areas where the movement of domestic livestock can be controlled. No more than one-tenth of any acre should be treated at one time. Further applications may be made in the same area at 30 day

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intervals. Remove domestic livestock before application and wait 14 days after application before grazing livestock or harvesting.

SUGARCANE

When applied as directed for ''Cropping Systems'', under the conditions described, this product controls those emerged annual and perennial weeds listed on this label growing in or around sugarcane or in fields to be planted to sugarcane. This product will also control undesirable sugarcane.

NOTE: Where repeat treatments are necessary, do not exceed a total of 10.6 quarts of this product per acre per year. Do not apply to vegetation in or around ditches, canals or ponds containing water to be used for irrigation.

Broadcast Treatment-Apply this product in 10 to 40 gallons of water per acre on emerged weeds growing in fields to be planted to sugarcane.

For specific rates of application and instructions for control of various annual and perennial weeds, see the ''Weeds Controlled'' section of this label.

For removal of last stubble or ratoon cane, apply 4 to 5 quarts of this product in 10 to 40 gallons of water per acre to new growth having at least 7 or more new leaves. Allow 7 or more days after application before tillage.

Spot Treatment in or Around Sugarcane Fields—For dilution and rates of application using hand-held equipment, see ''Mixing, Additives and Application Instructions'' and ''Weeds Controlled'' sections of this label.

For control of volunteer or diseased sugarcane, make a 1 percent solution of this product in water and spray to wet the foliage of vegetation to be controlled.

NOTE: When spraying volunteer or diseased sugarcane, the plants should have at least 7 new leaves.

Avoid spray contact with healthy cane plants since severe damage > or destruction may result.

Do not feed or graze treated sugarcane forage following application.

MINIMUM TILLAGE SYSTEMS Tank Mixtures CORN AND SOYBEANS

When applied as recommended under-the conditions described, these tank mixtures control many emerged weeds, and give preemergence control of many-annual weeds when corn-or soybeans will be planted directly into a cover crop, established sod, or in previous crop residues.

Refer to specific product labels for crop rotation restrictions and cautionary statements of all products used in these tank mixtures. For mixing instructions, see the 'Mixing, Additives and Application Instructions' section of this label.

CORN

	ROUNDUP® plus LABSO®
-	ROUNDUP plus-LASSO plus ATRASINE
•	ROUNDUP plus-LAGGO-plus BLADEX™
•——	
•	ROUNDUP plus ATRAZINE plus SIMAZINE

SOYDEANS

-	- ROONDOLA-DIAG-PURPOA	
•	ROUNDUP-plus LAGSO plus-LOROX/LINURON	
	ROUNDUP plus LASSO-plus-LEXONE™	
•	ROUNDUP plus LASSO plus SENCOR	

Apply these tank mixtures—in 10 to 40 gallons of water per acre after planting or during planting—in—such manner—that the planter does not disturb the—treated soil. Do not apply—these mixtures after crop emergence.

REDUCED CONTROL MAY RESULT IF THIS PRODUCT IS USED IN TANK-MIXTURES CONTAINING FLUID FERTILIZERS.

CONTROL OF EMERGED WEEDS

Annual Woods Apply to actively growing grasses and broadleaf weeds. Use I quart of this product per acre in these tank mixtures if weeds are less than 6 inches tall. If weeds are over 6 inches tall, apply 1.5 quarts of this product per acre. For energed annual weeds controlled, see the 'Weeds Controlled' section of this label.

Perchnial Weeds At normal application rates in minimum tillage systems, perennial weeds may not be at the proper stage of yearth

Section 2

for control. See the-''General Information' section of this-label for the proper stage of growth for perennial weeds.

Use of 2 to 4 quarts of this-product-per acre in these tank mixtures, under these conditions provides top kill and reduces competition from many-emerged perennial grass and broadleaf weeds. For emerged perennial weeds controlled, see the ''Weeds Controlled'' section of this label.

To obtain the desired stage of growth, it may be necessary to apply this product alone in the late summer or fall and then follow with a label-approved, seedling weed control program at planting.

NOTE: When using these tank mixtures, do not-exceed 4-quarts of this product per acre.

USE OF THESE TANK MIXTURES FOR BERMUDAGRASS OR JOHNSONGRASS CONTROL IN MINIMUM TILLAGE SYSTEMS IS NOT RECOMMENDED. For bermudagrass control, follow the instructions—under ''Control of Perennial Weeds''—section of this label—and—then use—a label—approved, seedling weed control program in a minimum—tillage or conventional tillage system. For Johnsongrass control,—follow—the instructions under ''Control of Perennial Weeds''—section—of this—label, and then—use—a label—approved—seedling—weed-control—program—with conventional tillage.

The following are labeled ranges for the recommended preemergence herbicides:

	RATES/A	CRE
PRODUCT	-(QUARTS)	(POUNDS)
Lasso		
Atrazine 4L	1 to 2	•
Atrazine 80WP		1.25 to 2.3
Atrazine 90DF		- 1.1to 2
Bladex 4L	1 to 2.2	•
Bladex 90Dr	• • • • • • • • • • • • • • • • • • • •	0.7 to-3.3
Sĺmazine 4L 	1 to 2.2	
S imazine 80WP		1.25 to 2.75
Linuron 4L		
Lorox DF		0.75 t÷ }
Lexone 4L or		
Sencor 4F-	0.25 to 0.75	_
Lexone or		-
Sencor 75DF	<u> </u>	- 0.33 to 1

Read and carefully observe the label claims, cautionary statements, rates and all other information on the labels of all products. Use

according to the most restrictive label directions for each product in the mixture.

@Lasso is a registered trademark of Monsanto Company.

Bladex and Lexone are trademarks of E. I. du Pont de Nemours and Company.

*Sencor is a trademark of the parent company of Farbenfabriken Bayer GmbH, Leverkusen.

PREHARVEST APPLICATIONS

When applied as directed under the conditions described, this product controls annual and perennial weeds listed on this label prior to the harvest of COTTON.

Weed Control For specific rates of application and instructions for control of various annual and perennial weeds, see the ''Weeds Controlled' section of this label.

Broadcast Applications This product may be applied using either aerial or ground apray equipment. For ground applications with broadcast equipment, apply this product in 10 to 40 gallons of water per acre. For aerial applications, apply this product in 3 to 15 gallons of water per acre.

To control Johnsongrass using multiple nozzle directed spray equipment, apply 1 quart of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 10 to 20 gallons of water per acre. Ensure complete coverage.

For partial control of field bindweed, apply one quart of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 40 gallons of water per acre. Apply when bindweed is actively growing and 12 inches or greater in length. Reduced performance may result if bindweed is under drought stress.

Tank Mixtures

Roundup@ plus Def 6

Roundup plus Polex™

When applied as recommended under the conditions described, these tank mixtures control annual and perennial weeds disted on this label prior to the harvest of cotton. For application guidelines, precautions and defoliant rates, refer to the supplemental lubel for cotton harvest aid.

Timing of Application Apply this product or these tank mintures for preharvest weed control after 60 percent of the cotton tolls have opened.

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Parameter Control

NOTE: DO NOT APPLY TO CROPS GROWN FOR SEED. Allow a minimum of 7 days between application and harvest.

Do not feed or graze treated cottonseed forage or hay following preharvest applications.

<u>Def</u> is a trademark of Mobay Chemical Corporation.

*Folex is a trademark-of Rhone-Poulenc, Inc.

CONSERVATION TILLAGE, MINIMUM TILLAGE AND NO-TILE SYSTEMS CORN AND SOVBEANS Tank Mixtures

The recommendations made in this section are not registered for use in California.

When applied as recommended under the conditions described, the tank mixtures listed in this section control many emerged weeds, and give preemergence control of many annual weeds where corn or soybeans will be planted directly into a cover crop, established sod, or in previous crop residues.

Refer to specific product labels for crop rotation restrictions and cautionary statements of all products used in these tank mixtures. For mixing instructions, see the "Mixing, Additives and Application Instructions" section of this label.

Apply these tank mixtures in 10 to 20 gallons of water or 10 to 60 gallons of nitrogen solution per acre before, during or after planting. Do not apply these mixtures after crop emergence.

When tank mixing with residual herbicides, add an agriculturally approved nonionic surfactant at 0.5 to 1 percent by volume of spray solution. The addition of 1 to 2 percent dry ammonium sulfate by weight may increase the performance of this product.

NOTE: When using these tank mixtures, do not exceed 4 quarts of this product per acre.

CORN

For residual control, this product may be tank-mixed will the following herbicides or combination of herbicides:

************	A.T	SSO@/ATACH	LOR - A'. D H	PRAZINE
		DT MUS	נם	ADDYMOUNNATHD
	177	TYDD A		LADEX ™CYANAZINE IMAZINE
	80	LLLIT	ა	EMAZINE
	DU	AL"	PI	ROWL"
		CEP"		

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For improved burndown, this product may be tank-mixed with 2,4-D or dicamba. Applications of 2,4-D or dicamba must be made at least 7 days prior to planting corn. See the "Weeds Controlled" section for specific rate information.

BOYBEANS

For residual control, this product may be tank-mixed with the following herbicides or combination of herbicides:

CANOPY LOROX PLUS	
COMMAND™ PREVIEW™	
COMMO EREVINA	
DUAL™PROWE™	
GEMINI™ TURBO™	
GINTIA TONDO	
TAGGO (ATAGUTAN GARDETEN)	
LASSO®/ALACHLOR SCEPTER™	
LASSO®/ALACHLOR SCEPTER™ LEXONE™ SENCOR™	
T FY AND " SPNCAD"	
TEVOLD OFFICER	
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ET NURON SOUADRON	

For improved burndown; this product may be tank-mixed with the following herbicides:

2,4-DB 2,4-D*

* Applications of 2,4-D must be made at least 30 days prior to planting soybeans. See the "Weeds Controlled" section for specific rate information.

CORN AND SOYBEANS

Annual Weeds—For difficult—to-control weeds such as fall panicum, barnyardgrass, crabgrass, shattercane and broadleaf signalgrass up to 2 inches tall, and Pennsylvania smartweed up to 6 inches tall, apply this product at 2 pints per acre in these tank mixtures. For other labeled annual weeds, apply 1 to 1.5 pints of this product per acre when weeds are less than 6 inches tall, and 2 to 3 pints when weeds are over 6 inches tall. For a complete list of annual weeds controlled, see the "Weeds Controlled" section of this label.

Perennial Weeds—At normal application times in minimum tillage systems, perennial weeds may not be at the proper stage of growth for control. See the "Weeds Controlled" section of this label for the proper stage of growth for perennial weeds.

Use of 2 to 4 quarts of this product per acre in the tank mixtures mentioned above, under these conditions provides top kill and reduces competition from many emerged perennial grass and broadleaf weeds. For emerged perennial weeds controlled, see the "Weeds, Controlled" section of this label.

To obtain the desired stage of growth, it may be necessary to apply this product alone in the late summer or fall and then follow with a label-approved, seedling weed control program at planting.

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USE OF THESE TANK MIXTURES FOR BERMUDAGRASS OR JOHNSONGRASS CONTROL IN MINIMUM TILLAGE SYSTEMS IS NOT RECOMMENDED. For bermudagrass control, follow the instructions under "Control of Perennial Weeds" section of this label and then use a label-approved, seedling weed-control program in a minimum tillage or conventional tillage system. For johnsongrass control, follow instructions under "Control of Perennial Weeds" section of this label, and then use a label-approved seedling weed-control program with conventional tillage.

Bullet, Lasso, and Lariat are registered trademarks of Monsanto Company.

- "Canopy, Bladex, Gemini, Lexone, Lorox Plus and Preview are trademarks of E.I. duPont de Nemours and Company.
- [™]Dual is a trademark of Ciba-Geigy Corporation.
- "Sencor and Turbo are trademarks of Bayer AG.
- *Prowl, Scepter and Squadron are trademarks of American Cyanamid Company.
- Command is a trademark of FMC Corporation.

PREHARVEST APPLICATIONS

COTTON

When applied as directed under the conditions described, this product controls annual and perennial weeds listed on this label prior to the harvest of cotton.

Broadcast Applications -- This product may be applied using either aerial or ground spray equipment. For ground applications with broadcast equipment, apply this product in 10 to 20 gallons of water per acre. For aerial applications, apply this product in 3 to 10 gallons of water per acre:

FOR AERIAL APPLICATIONS, REFER TO THE "APPLICATION EQUIPMENT AND TECHNIQUES" AND "AERIAL EQUIPMENT" SECTIONS OF THIS LABEL.

FOR AERIAL APPLICATIONS IN CALIFORNIA, REPER TO THE FEDERAL SUPPLEMENTAL LABEL FOR AERIAL APPLICATIONS IN THAT STATE FOR SPECIFIC INSTRUCTIONS, RESTRICTIONS AND REQUIREMENTS.

DO NOT EXCEED A MAXIMUM RATE OF 1 QUART PER ACRE OF THIS PRODUCT WHEN MAKING APPLICATIONS BY AIR.

Weed Control--For specific rates of application and instructions for control of various annual and perennial weeds for this product used alone or in the following tank mixtures, see the "Weeds Controlled" section of this label:

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To control johnsongrass using multiple-directed or broadcast overthe-top spray equipment, apply 1 quart of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 10 to 20 gallons of water per acre. Ensure complete coverage.

For partial control of field bindweed, apply 1 quart of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 20 gallons of water per acre. Apply when bindweed is actively growing and 12 inches or greater in length. Reduced performance may result if bindweed is under drought stress.

TANK MIXTURES

MON-35085 plus Def 6 MON-35085 plus Folex MON-35085 plus Prep MON-35085 plus Prep plus Def 6 or Folex

When applied as recommended under the conditions described, these tank mixtures control annual and perennial weeds listed on this label prior to the harvest of cotton. For application guidelines, precautions and use-rates, refer to the Def, Folex and Prep labels.

This product when tank mixed with DEF 6 or Folex defoliants may provide enhancement of cotton leaf drop and regrowth inhibition.

Timing of Application--Apply this product or these tank mixtures for preharvest weed control after 60 percent of the cotton bolls have opened.

NOTE: DO NOT APPLY TO CROPS GROWN FOR SEED. Allow a minimum of 7 days between application and harvest. Do not feed or graze treated cotton forage or hay following preharvest applications.

"Def is a trademark of Mobay Chemical Company.
"Folex and Prep are trademarks of Rhone-Poulenc, Inc.

TREE AND VINE CROPS

This product is recommended for weed control in established groves, vineyards, or orchards, or for site preparation precrute to transplanting crops listed in this section. Applications may be made with boom equipment, CDA, shielded sprayers, hand-held and high volume wands, lances, or orchard guns, or with wiper applicator equipment, except as directed in this section. Fee the "Application Equipment and Techniques" section of this label for specific information on use of equipment.

When applying this product, refer to the ''Weeds Controlled'' section of this label for recommended rates to be used.

NOTE

Repeat treatments may be necessary to control weeds originating from underground parts of untreated weeds or from seeds. This product does not provide residual weed control. For subsequent weed control, follow a program using residual herbicides or use repeated applications of this product. Do not apply more than 10.6 quarts of this product per acre per year.

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE SOLUTION; SPRAY, DRIFT, OR MIST WITH FOLIAGE OR GREEN BARK OF TRUNK, BRANCHES, SUCKERS, FRUIT, OR OTHER PARTS OF TREES OR VINES. CONTACT OF THIS PRODUCT WITH OTHER THAN MATURED BROWN BARK CAN-RESULT IN SERIOUS CROP DAMAGE.

AVOID PAINTING OUT STUMPS WITH THIS PRODUCT AS INJURY RESULTING FROM ROOT GRAFTING MAY OCCUR-IN ADJACENT TREES.

Reduced control-may result when applications are made to annual or perennial weeds that have been moved, grazed or cut and have not been allowed to regrow to the recommended stage for treatment.

For specific rates of applications and instructions, see the "'Weeds Controlled' section of this label.

TANK MIXTURES TRUE

When applied as a tank-mixture, this product provides-control of the emerged annual weeds and partial control of the emerged perennial weeds listed in this label. The following residual herbicides will provide preemergence control of those weeds listed in the individual product labels.

	ROUNDUP® plus GOAL® 1.6E	
	ROUNDUP plus KARMEX DF	
	ROUNDUP plus KROVAR™ I	
- (ROUNDUP plus KROVAR™ II	
-	ROUNDUP plus SIMAZINE, PRINCEP CALIBER™ 90	_ _ · _
, 		
₩		
-	ROUNDUP plus SOLICAM 80DF	
-	ROUNDUP plus SURFLAN™ AS	

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•	ROUNDUP plus SURFLAN 75W
	ROUNDUP plus SIMASINE
	(80W,-or 4L, or PRINCEP-CALIBER 90)
	plus-SURFLAN (AS or -75W)
	ROUNDUP plus GOAL (1.6E)
	plus SURFLAN (AS or 75W)
-	ROUNDUP plus GOAL (1.6E)
1	plus-SIMASINE
	(80W, or 4L, or PRINCEP CALIBER 90) -
	ROUNDUP plus GOAL (1.6E)
	plus SURFLAN (AS or -75W)
	plus-simasine (80W, 4L,
	or PRINCEP Caliber 90)

^{*}See the Roundup plus Goal plus simazine tank mixturesection below for-specific use instructions.

When tank mixing with residual herbicides, add an agriculturally approved nonionic surfactant.

Do not-apply-these tank mixtures in Puerto Rico.

CONTROL OF EMERCED WEEDS

Annual Weeds Apply 1 quart-per acre-of this product in these tank mixtures, when weeds are less than 12 inches tall. For weeds greater than 12 inches tall, apply 1.5 quarts per acre.

Perennial Weeds For-partial control of perennial weeds using these tank-mixtures; apply 2 to 5 quarts per acre of this product. Follow the recommendations in the ''Weeds Controlled'' section of this label for stage of growth and rate of application for specific perennial weeds.

PREFMERGENCE WEED-CONTROL

The following are the labeled rates for the recommended residual herbicides:

PRODUCT	RATE/ACRE	
Goal 1.6E Karmex DF Krovar I Krovar II Simazine, Princep Caliber 90 Simazine, 80W Simazine 4L	1.25 to-5 qts. 2-to 8 lbs. 2 to 8 lbs. 2 to 8 lbs. 1.1 to 10.6 lbs. 1 to 12 lbs. 2 to 9.6 qts.	
Simazine, 80W	- 14 to 12 lbs.	

Surflan AS	-2 to 4 qts.
Surflan 75W	2-2/3 to 5-1/3 lbs.

NOTE: These residual herbicides may provide post-emergence activity on certain annual weed species.

Refer to the individual product labels for specific crops, rates, geographical restrictions and precautionary statements.

Read and carefully observe the label claims, cautionary statements, rates and all other information on the labels of all products.

For specific rates of application and instructions see the !! Weeds Controlled! section of this label.

ROUNDUP® plus GOAL

Roundup alone and Roundup plus Goal tank mixtures will control or suppress annual weeds listed below.

Apply the recommended rates of Roundup or Roundup plus Goal tank mixtures plus 0.5 to 1 percent nonionic surfactant by spray volume in 3 to 10 gallons of water per acre. Apply when weeds are actively growing and less than 6 inches in height. If weeds are under drought stress, irrigate prior to application.

RECOMMENDED RATES AND WEEDS CONTROLLED

C Control			- Suppre	9910N	
1 34	oundup rat	е	Roundu	p+Goal	
WEEDS			/acre)	(fl oz/acre)	
SPECIES	8			12 + 4 to 16	
Bluegrass,	е	€		······································	
annual					
Barley	——————————————————————————————————————	€			
Cheeseweed, common (3")	<u>\$</u> -	-S-	S	——е	
Rocket, London	S	_s _		е	
Shepherdspurse	s	-5-	-c		
Chickweed	s	-с-			
Fleabane,	<u> </u>	Ċ	<u> </u>	-	
flaxleaf	_	-	_	_	
Red Maids	\$	-c-	c	С	
			16 + 4	to 16	
Barnyardgrass	<u> </u>	-C		· · ·	
Cheeseweed,	<u>c</u>	<u> </u>		c	
common (3-6")	J	5	5	•	
Crabgrass	····· S····			C	
Groundsel,		S			
common					

Junglerice	—-—- - S	_ S _	€		—е
Lambsquarters	s_	-s -	-с-		€
Marestail	S	- s -	-		
Pigweed, redroot	s	-s -	-c		- е
Ryegrass, —		_5 -	-c		—с
common					
Sowthistle,	s_	-S-	-c		c
annual					
Purslane, — — — — — — — — — — — — — — — — — — —	S	_s _	-c		
common					
Nettle, —	— S	-s -			€
stinging					
Filaree	S	-s -	-S		 S

ROUNDUP® plus GOAL plus SIMAZINE

(California only)

Roundup may be tank mixed with Goal plus simazine for broadspectrum postemergence and preemergence control. Refer to the following table for approved crops and rate ranges for each product in this tank mix. Refer to the individual product labels for weeds controlled, geographical restrictions, precautionary statements and specific use rates.

KATL	tonno co -

	ROUNDUP®	GOAL 1.6E	SIMAZIN	Έ
CROP-	- (qua :	r ts)	(quarts)	(pounds)
G rapes Almond		1.5	1.25 to 5	2.5 - to 5 - - 1.25 to 2.5

Use equivalent rate of Princep Caliber 90 or simazine 4L.

**Rate dependent on soil type and weeds present.

ROUNDUP® plus GOAL plus GIMAZINE/GURFLAN

This product plus Goal, applied alone or as a three way or four-way with simazine and/or Surflan, will provide postemorgance control of those weeds listed below when applied as recommended.

Refer to individual product labels for preemergence rates, weeds controlled, precautionary statements and other important information.

Apply these tank mixtures in 3 to 40-gallons of water. Add 0.5 to 1 percent nonionic surfactant by total spray volume to the spray solution.

WHEDS CONTROLLED

	cimum	odune - Conl
Weed-Species	igh tRour (inches)	dup® + Goal - (quarts/acre)
Barley,		
-wild	A Section	
Bluegrass,	4	- 0.5 to 1 + 0.5 to 5
annual		•
Cheeseweed,	4	0.5 to 1 + 0.5 to 5
common		
Chickweed,		0.5 to 1 + 0.5-to 5
- common	•	
Flaxleaf,	4	0.5 to 1 + 0.5 to 5
f-leabane	•	
Groundsel,	4	0.5 to 1 + 0.5 to 5
- common	•	0.0 20 2 0.0 00 0
Marestail		0.5 to 1 + 0.5-to 5
Pineappleweed		0.5 to 1 + 0.5 to 5
Rocket, London		0.5-to-1-+-0.5 to-5
Shepherdspurse	<u>.</u>	0.5 to 1 + 0.5 to 5
Sowsthistle,		-0.5 to 1 + 0.5 to 5
-annual		-0.5 0 1 7 0.5 0 5
	1.2	1 +0 1 5 : 1 +0 5
Cheeseweed,	12	1 to 1.5 + 1 to 5
common		
Nettle,	12	1-to-1:5 + 1 to 5
stinging		
Filaree		1 to 1.5 + 1 to 5

[™]Solicam is-a trademark of Sandoz, Inc.

TREE AND VINE CROPS

This product is recommended for weed control in established groves, vineyards, or orchards, or for site preparation prior to transplanting crops listed in this section. Applications may be made with boom equipment, CDA, shielded sprayers, hand-held and high-volume wands, lances, or orchard guns, or with vicer applicator equipment, except as directed in this section. See the "Application Equipment and Techniques" section of this label for specific information on use of equipment.

When applying this product, refer to the "Weeds Controlled" section of this label and to specific recommendations in this section for rates to be used.

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NOTE

Repeat treatments may be necessary to control weeds originating from underground parts of untreated weeds or from seeds. This product does not provide residual weed control. For subsequent weed control, use repeated applications of this product. Do not apply more than 10.6 quarts of this product per acre per year.

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE SOLUTION, SPRAY, DRIFT, OR MIST WITH FOLIAGE OR GREEN BARK OF TRUNK, BRANCHES, SUCKERS, FRUIT, OR OTHER PARTS OF TREES OR CONTACT OF THIS PRODUCT WITH OTHER THAN MATURED BROWN BARK CAN RESULT IN SERIOUS CROP DAMAGE.

AVOID PAINTING OUT STUMPS WITH THIS PRODUCT AS INJURY RESULTING FROM ROOT GRAFTING MAY OCCUR IN ADJACENT TREES.

Reduced control may result when applications are made to annual or perennial weeds that have been mowed, grazed or cut and have not been allowed to regrow to the recommended stage for treatment.

For specific rates of applications and instructions, see the "Weeds Controlled" section of this label, and to specific recommendations which follow.

MIDDLES MANAGEMENT

FOR ANNUAL WEEDS IN MIDDLES BETWEEN ROWS OF TREE AND VINE CROPS

For citrus crops treat uniformly between trees.

MON-35085 MON-35085 plus GOAL"

This product alone or in mixtures with Goal will control or suppress the annual weeds listed below.

Apply the recommended rates of this product, either alone or in mixtures with Goal, plus 0.5 to 1 percent nonionic surractant by spray volume in 3 to 10 gallons of water per acre. Apply when weeds are actively growing and less than 6 inches in height or diameter. If weeds are under drought stress, irrigate prior to application. Reduced control may occur if weeds have reen mcwed prior to application. Up to 48 fluid ounces per acre of this product may be used to control weeds which have been mowed, are stressed, or are growing in dense populations.

MAXIMUM RATE PER ACRE

WEED SPECIES	HEIGHT/DIAMETER (INCHES)	MON-35085 GOAL (FLUID OUNCES) (FLUID OUNCES)
Barley Hordeum vulgare Bluegrass, annual Poa annua	6	8
Barnyardgrass Echinochloa crus- Chickweed, common Stellaria media Red Maids Calandrinia cilia		-
Crabgrass Digitaria spp. Fleabane, flaxleaf Conyza bonariensi Groundsel, common Senecio vulgaris Junglerice Echinochloa color Lambsquarters, comm Chenopodium album Pigweed, redroot Amaranthus retrof Rocket, London Sisymbrium irio Ryegrass, common Lolium multifloru Shepherdspurse Capsella bursa-pa Sowthistle, annual Sonchus oleraceus	num non l lexus um storis	16 CR 16 to 32 + 4 to 16**
Chaeseweed, common Malva spp.	3	12 to 32 + 4 to 16
Cheeseweed, common :Malva spp. Friaree* Erodium spp. Horseweed/Marestail Conyza canadensis Nettle, stinging Urtica dioica Purselane, common* Purtulaca olerace	,	16 to 32 + 4 to 16

Suppression only.
 **The mixture of this product plus Goal is recommended when weeds are stressed or growing in dense populations.

STRIPS

FOR ANNUAL AND PERENNIAL WEEDS IN STRIPS OF TREE AND VINE CROPS

■ TANK MIXTURES WITH RESIDUAL HERBICIDES ■
When applied as a tank mixture, this product provides control of the emerged annual weeds and control or suppression of emerged perennial weeds listed in this label. The following residual herbicides will provide preemergence control of those weeds listed in the individual product labels.
■ MON-35085 plus GOAL 1.62 ■
MON-35085 plus KARMEX DF
■ MON-35085 plus KROVAR I
■ MON-35085 plus KROVAR II ■
MON-35085 plus BIMAZINE, PRINCEP CALIBER 90
■ MON-35085 plus SIMAZINE 4L
MON-35085 plus SIMAZINE BOW
■ MON-35085 plus BOLICAM® BODF ■
■ MON-35085 plus BURPLAN AB
■ MON-35085 plus SURPLAN 75W ■
MON-35085 plus SIMAZINE (BOW, or 4L, or PRINCEP CALIBER 90) plus SURPLAN (AS or 75W)
MON-35085 plus GOAL (1.6E) plus SURFLAN (AB or 75W)
MON-35085 plus GOAL (1.62) plus SIMAZINE (80W, or 4L, or PRINCEP CALIBER 90)
MON-35085 plus GOAL (1.6E) E plus SURFLAN (AS or 75W) plus SIMAZINE (80W, 4L, or PRINCEP CALIBER 90)

Do not apply these tank mixtures in Puerto Rico.

When tank-mixing with residual herbicides, add an agriculturally approved nonionic surfactant at 0.5 to 1 percent by volume of spray solution.

Refer to the individual product labels for specific crops, rates, geographical restrictions and precautionary statements.

Read and carefully observe the label claims, cautionary statements, rates and all other information on the labels of all products.

Marmex is a trademark of E.I. duPont de Nemours and Company.

RECOMMENDED RATES

Annual Weeds - Apply 1 to 5 quarts per acre of this product in these tank mixtures. Use rates at the higher end of the recommended range when weeds are stressed, growing in dense populations or are greater than 12 inches tall.

Perennial weeds - Apply 1 pint to 5 quarts per acre of this product in these tank mixtures to control or suppress perennial weeds. Pollow the recommendations in the "Weeds Controlled" section of this label for stage of growth and application rates for specific perennial weeds.

MON-35085 plus GOAL plus BIMAZINE/SURFLAN

This product plus low rates of Goal in three-way or four-way mixtures with simazine and/or Surflan will provide postemergence control of the weeds listed below.

Refer to the individual simazine and Surflan labels for preemergence rates, weeds controlled, precautionary statements and other important information.

Apply these tank mixtures in 3 to 40 gallons of water. Add 0.5 to 1 percent nonionic surfactant by total spray volume to the spray solution.

Apply 1 to 5 quarts per acre of this product plus c to 48 fluid ounces per acre of Goal plus labeled rates of simacino and/or Surflan to control the following weeds:

Barley, wild

Hordeum leporinum
Bluegrass, annual
Poa annua
Cheeseweed, common
Malva spp.
Chickweed, common
Stellaria media
Filaree*
Erodium spp.

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Fleabane, flaxleaf Conyza bonariensis Groundsel, common Senecio vulgaris Horseveed/Marestail Conyza canadensis Nettle, stinging Urtica dioica Pineappleweed Matricaria matricariodes Rocket, London Sisymbrium irio Shepherdspurse Capsella bursa-pastoris Sowthistle, annual Sonchus oleraceus

*Use a minimum of 1.5 quarts of this product in these mixtures.

NOTE: This recommendation does not preclude the use of Coal in these mixtures at higher, labeled rates for preemergence weed control.

PERENNIAL GRASS SUPPRESSION ORCHARD FLOORS

When applied as directed, this product will suppress vegetative growth as indicated below.

<u>Bahiagrass</u>

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This product will provide significant inhibition of seedhead emergence and will suppress vegetative growth for a period of approximately 45 days with a single application and approximately 120 days with sequential applications. Apply this product 1 to 2 weeks after full green-up or after mowing to a uniform height of 3 to 4 inches. Applications must be made prior to seedhead emergence. Apply 6 fluid ounces of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 10 to 25 gallons of water per acre.

Sequential applications of this product plus nonionic surfactant may be made at approximately 45-day intervals to extend the period of seedhead and vegetative growth suppression. For continued seedhead suppression, sequential applications must be made prior to seedhead emergence. Apply no more than 2 sequential applications per years. As a first sequential application, apply 4 fluid ounces of this product plus nonionic surfactant. A second sequential application of 2 to 4 fluid ounces may be made approximately 45 days after the last application.

Bermudagrass

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For burndown, apply 1 to 2 quarts of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 20 gallons of water per acre. Use 1 quart of this product in 3 to 20 gallons of water per acre east of the Rocky Mountains. Use 1 to 2 quarts of this product in 3 to 10 gallons of water per acre west of the Rocky Mountains. Use this treatment only if reduction of the bermudagrass stand can be tolerated. When burndown is required prior to harvest, allow at least 21 days to ensure sufficient time for burndown to occur.

Suppression only (east of the Rocky Mountains)—Apply 6 to 16 fluid ounces of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 20 gallons of water per acre no sooner than 1 to 2 weeks after full green—up. Mowing prior to application may occur provided a minimum height of 3 inches is maintained. Rates of 6 to 10 fluid ounces of this product plus nonionic surfactant should be used in shaded conditions or where a lesser degree of suppression is desired. Sequential applications may be made when regrowth occurs and bermudagrass injury and stand reduction can be tolerated.

Suppression only (west of the Rocky Mountains)—Apply 16 fluid ounces of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre up to 6 inches in height and no sooner than 1 to 2 weeks after full green-up. Mowing prior to application may occur provided a minimum height of 3 inches is maintained. Sequential applications may be made when regrowth occurs and bermudagrass injury and stand reduction can be tolerated.

Cool Season Grass Covers

4

For suppression of tall fescue, fine fescue, orchardgrass and quackgrass, apply 8 fluid ounces of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 10 to 20 gallons of water per acre. For best suppression, add ammonium sulfate to the spray solution at a rate of 2 percent by weight or 17 pounds per 100 gallons of spray solution.

For suppression of Kentucky bluegrass covers, apply 6 fluid ounces of this product plus 0.5 to 1 percent nonionic surfactant. Do not add ammonium sulfate.

For best results, mow cool-season grass covers in the spring to even their height and apply the recommended rate of this product 3 to 4 days after mowing. Avoid treating cool season grass covers under poor growing conditions, such as drought stress (drip irrigation), disease or insect damage.

LOW VOLUME APPLICATION (FLORIDA AND TEXAS)

For burndown or control of listed perennial the weeds listed, apply the recommended rates of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 20 30 gallons of water per acre. Where weed foliage is dense, use 10 to 20 30 gallons of water per acre.

Annual Weeds

Goatweed--Apply 2 to 3 quarts per acre of this product plus 17 pounds of ammonium sulfate per 100 gallons of water plus 0.5 to 1 percent nonionic surfactant by total spray volume. Apply in 20 to 30 gallons of water per acre when plants are actively growing. Use 2 quarts per acre when plants are less than 8 inches tall and 3 quarts per acre when plants are greater than 8 inches. If goatweed is greater than 8 inches tall, the addition of Krovar* II or Karmex* may improve control. Use labeled rates for these residual products.

Read and carefully observe the label claims, cautionary statements, rates and all other information on the Krovar II and Karmex labels.

Perennial Weeds

Apply when weeds are actively growing and at the growth stages listed in the ''Perennial Weeds Controlled'' section of this label. If perennial weeds are mowed, allow weeds to regrow to the recommended stage of growth.

B = Burndown

PC = Partial control	C	= Contro	<u> </u>	
WEED SPECIES	MC 1 qt	N-35085 1 2 qts		ACRE 5 qts
Bermudagrass Guineagrass	В	•	PC	С
Texas and Florida Ridge	В	С	С	С
Florida Flatwoods	•	В	С	С
Paragrass	В	C	C	С
Torpedograss	S	•	PC	С

TREE CROPS

Citrus*: citron, grapefruit, kumquat, lemon, lime, orange, pummelo, tangelo, tangerine, tangors.

/ Nuts**: almond, chestnuts, filbert, macadamia, pecan, pistachio, walnut.

Pome Fruit*: apple, pear.

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S = Suppression

Stone Pruit***: apricots, cherries, nectarines, olives, peaches,
plums/prunes.

For cherries, any application equipment listed in this section may be used in all states.

For citron and olives, apply as a directed spray only.

Any application equipment listed in this section may be used in apricots, nectarines, peaches, and plums/prunes growing in Arizona, California, Colorado, Idaho, Kansas, Kentucky, New Jersey, North Dakota, Oklahoma, Oregon, Texas, Utah, and Washington, except for peaches grown in the states specified in the following paragraph. In all other states use wiper equipment only.

For PEACHES grown in Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, South Carolina, and Tennessee only, apply with a shielded boom sprayer or shielded wiper applicator which prevents any contact of this product with the foliage or bark of trees. Apply no later than 90 days after first bloom. Applications made after this time may result in severe damage. Remove suckers and low hanging limbs at least 10 days prior to application. Avoid applications near trees with recent pruning wounds or other mechanical injury. Apply only near trees which have been planted in the orchard for 2 or more years. EXTREME CARE MUST BE TAKEN TO ENSURE NO PART OF THE PEACH TREE IS CONTACTED.

Tropical Fruit: acerola, atemoya*, avocado*, banana (plantains), breadfruit*, canistel*, carambola*, coffee****, dates*, figs*, guava, jaboticaba*, jackfruit*, longan*, lychee*, mango*, papaya, passion fruit*, persimmons*, sapodilla, sapote, soursop, sugar apple*, tamarind*, tea. Allow a minimum of 1 day between last application and harvest of guava and papaya. In coffee and banana, delay applications 3 months after transplanting to allow the new coffee or banana plant to become established.

NOTE:

- * Allow a minimum of 14 days between last application and harvest.
- ** Allow a minimum of 21 days between last application and harvest of these crops.
 - *** Allow a minimum of 17 days between last application and harvest.
- ****Allow a minimum of 28 days between last application and harvest.

VINE CROPS

Kiwi Fruit*

Grapes: * Any variety of table, wine, or raisin grape may be treated with any equipment listed in this section.

In the northeast and Great Lakes regions, applications must be made prior to the end of bloom stage of grapes to avoid injury.

- * Applications should not be made when green shoots, canes, or foliage are in the spray zone.
- * Allow a minimum of 14 days between last application and harvest.

CALIFORNIA

Roundup® herbicide This product has been approved by the U.S. Environmental Protection Agency and by the state of California for the uses, crops and sites listed in this label. With the exception of these items, this booklet contains the material approved by California.

These use conditions, crops and sites may not be treated with this product in California until approval is received:

• Cool season truf growth regulation

Product protected by
U.S. Pat. No 3,799,758,
U.S. Pat. No. 4,405,531 and U.S. Pat. No. 4,840,650.
Other patents pending.
No license granted under any
non-U.S. patent(s).

EPA Reg. No. 524-445

897.10-005.16/53 898.07-003.01/53

This product has been approved for use in California except as stated otherwise on page 122.

In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000.

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MONSANTO COMPANY
AGRICULTURAL PRODUCTS
ST. LOUIS, MISSOURI, 63167 U.S.A.

; **9**,

Dr. Sheila A. Schuette Monsanto Company 700 14th Street MM., Suite 1100 Washington, DC 20005

Dear Dr. Schuette:

Subject: MON-35085 Marbicide (Assial Application In California) EPA Registration No. 524-445 Your Letter Dated February 4, 1991

The amondment referred to above, submitted in connection with registration under section J(c)(7)(A) of the Federal Insecticide. Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that your

- Submit/cite all data required for registration/reregistration
 of your product under FTFRA section 3(c)(5) and section 4 when
 the Agency requires all registrants of similar products to submit
 such data.
- Submit five (5) copies of your final printed labeling before you release the product for shipment.

If those conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is employed for your records.

Singerely yours,

Robert J. Taylor Product Manager (25) Pungicide-Herbicide Branch Registration Division (H7505C)

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54426:I:CN-43:Walters:L25-1:KEVRIC:03/04/91:13/08/91:TK

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EPA Form 1320-1 (12-70)

OFFICIAL FILE CD数

Monsanto

Monsanto Company Suite 1100 700 14th Street, N.W. Washington, D.C. 20005

February 14, 1991

Document Processing Center (Amend)
Office of Pesticide Programs - H7504C
U.S. Environmental Protection Agency
1921 Jefferson Davis Highway
Crystal Mall #2, Room 226A
Arlington, Virginia 22202

Attention:

Mr. Robert J. Taylor

Product Manager (25)

Subject:

1

MON-35085 Herbicide (EPA Reg. No. 524-445)

Supplemental Label: Aerial application in California.

Dear Sir:

Enclosed for Agency review and approval are five (5) copies of a supplemental label for MON-35085 herbicide recommending aerial application in California. This is an approved use with additional guidance on the correct method of application and the use of buffer strips.

An Application for Pesticide Amendment and Certification with Respect to Citation of Data and General Offer to Pay are enclosed.

If you have any questions regarding this request, please contact Dr. Kevin Cannon or me.

Sincerely,

Sheila A. Schuette, Ph.D.

Shula a feliett

Senior Registration Specialist

(314) 694-7248

SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL BOOKLET FOR MON-35085 BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the booklet for MON+35085 herbicide and this supplement.

MON-35085 Herbicide by Monsanto

EPA Reg. No. 524-445

FOR AERIAL APPLICATION IN CALIFORNIA ONLY

Keep out of reach of children.

ara, in the

WARNING!

In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of herbicide application.

See "GENERAL INFORMATION" and "MIXING, ADDITIVES AND APPLICATION INSTRUCTIONS" sections of the label booklet for essential product performance information.

See the "CROPPING SYSTEMS" section of the label booklet for specific recommendations on the use of this product.

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF THE SPRAY WITH FOLIAGE, GREEN STEMS, OR FRUIT OF DESIRABLE CROPS, PLANTS, TREES OR OTHER DESIRABLE VEGETATION, SINCE SEVERE DAMAGE OR DESTRUCTION MAY RESULT.

Aerial applications of this product are allowed in the following situations:

1. In fallow and reduced tillage systems prior to the emergence or transplanting of labeled crops.

ACCEPTED

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. Z30.

2. In cotton, prior to harvest. Refer to the Roundup booklet for specific preharvest application instructions.

Do not plant subsequent crops other than those listed in the label booklet for this product for 30 days following application.

When applied as recommended, under the conditions described, this product controls annual and perennial weeds listed in the label booklet.

DO NOT EXCEED A MAXIMUM RATE OF 1 QUART PER ACRE OF THIS PRODUCT WHEN MAKING APPLICATIONS BY AIR.

AERIAL EQUIPMENT

Use the recommended rates of this product in 3 to 15 gallons of water per acre.

Do not apply directly to water or wetland (swamps, bogs, marshes or potholes). Do not contaminate water when disposing of equipment washwaters.

AVOID DRIFT - DO NOT APPLY WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITION WHICH WILL ALLOW DRIFT. DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED. TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.

Use the following guidelines when aerial applications are made near crops or desirable perennial vegetation after bud break and before total leaf drop, and/or near other desirable vegetation or annual crops.

- Do not apply within 100 feet of all desirable vegetation or crop(s).
- 2. If wind up to 5 miles per hour is blowing toward desirable vegetation or crop(s), do not apply within 500 feet of the desirable vegetation or crop(s).
- 3: Winds blowing from 5 to 10 miles per hour toward desirable vegetation or crop(s) may require buffer zones in excess of 500 feet.
- , 4. Do not apply when winds are in excess of 10 miles per hour or when inversion conditions exist.

'Coarse sprays are less likely to drift; therefore, do not use nozzles or nozzle configurations which dispense spray as fine spray droplets. Do not angle nozzles forward into the directeam and do not increase spray volume by increasing nozzle pressure.

Drift control additives may be used. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive level.

Ensure uniform application - To avoid streaked, uneven or overlapped application, use appropriate marking devices.

Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove residues of this product accumulated during spraying or from spills. PROLONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES MAY RESULT IN CORROSION AND POSSIBLE FAILURE OF THE PART. LANDING GEAR IS MOST SUSCEPTIBLE. The maintenance of an organic coating (paint) which meets aerospace specification MIL-C-38413 may prevent corrosion.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label for MON-35085 before using this product. Those terms apply to this supplemental labeling and if those terms are not acceptable, return the product unopened at once.

©MONSANTO COMPANY 1991

MAP-3169

MONSANTO COMPANY AGRICULTURAL PRODUCTS ST. LOUIS, MISSOURI 63167

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EPA Form 8570-1 (Rev. 4-88) Previous editions are obsolete.

Paperwork Reduction Act Notice and Instructions

Paperwork Reduction Act Notice

Public reporting burden for this collection of information is estimated to average of 0.85 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

Instructions

General

This form is to be used for all applications for new and amended registrations for posticide products.

In order to process an application for new registration submitted on this form, the following material must accompany the application:

- Offer to Pay Statement (EPA Form 8570-27, -28, -29). (If not exempted by 40 CFR 162.9-1(b).)
- 2. Confidential Statement of Formula (EPA Form 8570-4).
- Five copies of draft labeling.
- 4. Three copies of any data submitted.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8 1/2 x 11 inch paper or as a mockup of the proposed label. If prepared as a mockup it should be constructed in such a way as to facilitate storage in an 8 1/2 x 11 inch file. Mockup labels significantly smaller than 8 1/2 x 11 inches should be mounted on 8 1/2 x 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

Specific

Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Section 1, III, and IV must be completed by the applicant. For applications submitted in connection with amended registration actions, Section 1, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

Section I - This Section must be completed for both Registration and Amended Registration actions.

- Ohmpany/Product Number Insert your company number, if one has been assigned. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If application is for an amendment, insert the registration number of the product.
- 2. Date Fill in the appropriate date.
- Product Manager If known, fill in the name and number of the Froduct Manager.
- Proposed Classification Specify the proposed classification for this product.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom registration will be issued. If you are acting in behalf of another pany you must submit authorization from that party to act for them in registration matters.

An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.

6. Product Name - Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.

Amendment Information

Section II - This Section must be completed for all applications submitted in connection with Amended Registration.

 Subject of Amendment - Check the appropriate block, and provide a brief explanation of the purpose(s) for the amendment, such as: "the addition of a site, post, or erop"; "to change inert ingredient"; "general label revisions of precautionary statements," etc.

Packaging and Container Information

Section III - This Section must be completed for all applications submitted in connection with New Registration.

- Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types. Indicate the size of the individual packets and number per retail container.
- Type of Retail Container Indicate type of container in which product will be marketed.
- Location of Net Contents Specify the net contents of all retail containers for your product.
- Size(s) of Retail Container Specify the net contents of all retail containers for your product.
- Location of Use Directions Indicate the location of the use directions for your product.
- Manner in which label is affixed to product Indicate the method product labeling is attached to retail container.

Contact Point

Section IV - This Section must be completed for all Registration and Amended Registration applications,

- 1-S. Self-explanatory.
- 6. EPA Use Only.

CERTIFICATION WITH RESPECT TO CITATION OF DATA

EPA File Symbol/Reg. No. 524-445 Date of Application February 14, 1991
Name of Product MON-35085 Herbicide
Applicant's Name and AddressMonsanto Company
Suite 1100
700 14th Street, N.W.
Washington, D.C. 20005
1. This application is supported by all data submitted or cited in the application. In addition, if cite-all options are indicated, this application is supported by all data in the Agency's files that concern the properties or effects of this product or of any other product that is identical or substantially similar, and that is one of the types of data that would be required to be submitted if this application sought the initial registration of a product of identical or similar composition and intended uses under the data requirements in effect on the date of approval of this application.
2. I certify that, for each study cited in support of this application for registration that is an exclusive use study, I have obtained the written permission of the original data submitter to cite that study.
3.; I certify that, for each study cited in support of this application for registration that is <u>not</u> an exclusive use study:
I have obtained the written permission of the original data submitter to cite that study; $\underline{\text{or}}$
I have notified in writing the companies who have submitted data I have cited to support those applications and have offered to: (a) Pay compensation for those data in accordance with section 3(c)(1)(D) and 3(c)(2)(D) of the Federal Insecticide, Fungicide and Rodenticide Act; and (b) Commence negotiations to determine which data are subject to the compensation requirements of FIFRA and the amount and terms of compensation due, if any. The companies I have notified are: (Check one)
[] All companies listed on the Pesticide Data Submitters List for all active ingredients contained in my product (Cite-all method or cite-all option under Selective Method). (Also sign the General Offer to Pay Statement below).
$\{X_i\}$ Monsanto Company has submitted the studies which I have cited (Selective Method).
Date February 14, 1991 Signature Skula (Scient 2/14/91
Title Senior Registration Specialist
General Offer to Pay: I hereby offer and agree to pay compensation to other persons, with regard to the approval of this application, to the extent required by FIFRA sec. $3(c)(1)(D)$ and $3(c)(2)(D)$.
Date February 14, 1991 Signature Skula () felical 3/14/91 Title Senior Registration Specialist 735
Title Senior Registration Specialist 736

Dr. Sheila A. Schuette Monsanto Company 700 14th Street NW., Suite 1100 Washington, DC 20005

Dear Dr. Schuette:

Subject: MON-35085 Herbicide (Control of Quackgrass and Orchardgrass in Corn and Soybeans)

EPA Registration No. 524-445

Your Application Dated February 14, 1991

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide

Act, as amended, is acceptable. Please submit five (5) copies of your final printed labels before you release the product for shipment. A stamped copy of labeling is enclosed for your records.

Sincerely yours,

Robert J. Taylor Product Manager (25) Pungicide-Herbicide Branch Registration Division (H7505C)

Enclosure

54426:I:Walters:L25-1:KEVRIC:03/04/91:13/08/91:TK:DD

		_	CONCURRENC	ES	 	
SYMBOL	H7505C				 	
SURNAME	WK Walter					_
DATE	3/15/91					

EPA Form 1320-1 (12-70)

OFFICIAL FILE COP

Monsanto

Monsanto Company Suite 1100 700 14th Street, N.W. Washington, O.C. 20005

February 14, 1991

Document Processing Center (Amend) Office of Pesticide Programs - H7504C U.S. Environmental Protection Agency 1921 Jefferson Davis Highway Crystal Mall #2, Room 226A Arlington, Virginia 22202

Attention:

Mr. Robert J. Taylor

Product Manager (25)

Subject:

MON-35085 Herbicide (EPA Reg. No. 524-445)

Supplemental Label: Suppression of Quackgrass and Orchardgrass

in Ohio

Dear Sir:

Enclosed for Agency review and approval are five (5) copies of a supplemental MON-35085 herbicide label. This supplemental label provides more specific guidance on the use of MON-35085 herbicide for the suppression of quackgrass and orchardgrass prior to planting corn or soybeans in Ohio.

An Application for Pesticide Amendment and Certification with Respect to Citation of Data and General Offer to Pay are enclosed.

If you have any questions regarding this request, please contact Dr. Kevin Cannon or me.

Sincerely,

Sheila A. Schuette, Ph.D.

Phila a pelesto

Senior Registration Specialist

(314) 694-7248

238

TELEPHONE: (202) 783-2460

FACSIMILE: (202) 783-2468

SUPPLEMENTAL LABELING

READ AND FOLLOW THE ENTIRE LABEL FOR MON-35085 HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label for MON-35085 herbicide and this supplement.

MON-35085 Herbicide by Monsanto

EPA Req. No. 524-445

FOR DISTRIBUTION AND USE ONLY WITHIN OHIO.
FOR SUPPRESSION OF QUACKGRASS AND ORCHARDGRASS IN
CORN AND SOYBEAN NO-TILL SYSTEMS.

Keep out of reach of children.

WARNING!

In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000.

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Sec. 1

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with the labeling.

This supplemental labeling and the label booklet for MON-35085 must be in the possession of the user at the time of herbicide application.

AVOID CONTACT WITH FOLIAGE, GREEN STEMS, OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, SINCE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION", "APPLICATION EQUIPMENT AND TECHNIQUES" and "CROPPING SYSTEMS" sections of the label booklet for MON-35085 for essential product information.

RECOMMENDATIONS

In the spring prior to planting corn or soybeans, apply 1 pint per acre of this product plus 0.5 to 1 percent nonionic

Under the Federal Insecticide,
Fungicide, and Redenucide Act,
as amended, for the pesticide
registered under

239

surfactant by total spray volume in 5 to 10 gallons of water per acre.

The addition of ammonium sulfate at the rate of 17 pounds per 100 gallons of spray solution is recommended for enhanced performance under stress conditions.

Allow 3 to 7 days after application before planting.

After planting, but prior to crop emergence, apply atrazine, Lariat®, Bullet® or Bićep™ for corn or Lorox™, Lorox™ Plus or Preview™ for soybeans at labeled rates with crop oil or surfactant to maximize overall postemergence control.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label booklet for MON+35085 before using this product. Those terms apply to this supplemental labeling and if those terms are not acceptable, return the product unopened at once.

®Bullet and Lariat are registered trademarks of Monsanto Company. ™Lorox and Preview are trademarks of E.I. duPont de Nemours and Company.

©MONSANTO COMPANY 1991

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MONSANTO COMPANY AGRICULTURAL PRODUCTS ST. LOUIS, MISSOURI 63167

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EPA Form 8570-1 (Rev. 4-88) Previous editions are obsolete.

Paperwork Reduction Act Notice and Instructions

Paperwork Reduction Act Notice

Public reporting burden for this collection of information is estimated to average of 0.85 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

Instructions

General

This form is to be used for all applications for new and amended registrations for pesticide products.

In order to process an application for new registration submitted on this form, the following material must accompany the application:

- Offer to Pay Statement (EPA Form 8570-27, -28, -29). (If not exempted by 40 CFR 162.9-1(b).)
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Five copies of draft labeling.
- 4. Three copies of any data submitted.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on $8.1/2 \times 11$ inch paper or as a mockup of the proposed label. If prepared as a mockup it should be constructed in such a way as to facilitate storage in an $8.1/2 \times 11$ inch file. Mockup labels significantly smaller than $8.1/2 \times 11$ inches should be mounted on $8.1/2 \times 11$ inche paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

Specific

Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Section I, III, and IV must be completed by the applicant. For applications submitted in connection with amended registration actions, Section I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

Section I - This Section must be completed for both Registration and Amended Registration actions.

- Company/Product Number Insert your company number, if one has been assigned. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If application is for an amendment, insert the registration number of the product.
- · 2. Date Fill in the appropriate date.
 - Product Manager If known, fill in the name and number of the Product Manager.
 - Preposed Classification Specify the proposed classification for this product.
 - 5. Name and Address of Applicant The name of the firm or person and address state in your application is the person or firm to whom registration will be issued. If you are acting in behalf of another party, you must submit authorization from that and to act for died in registration matters.

An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.

6. Product Name - Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.

Amendment Information

Section II - This Section must be completed for all applications submitted in connection with Amended Registration.

 Subject of Amendment - Check the appropriate block, and provide a brief explanation of the purpose(s) for the amendment, such as: "the addition of a site, pest, or crop"; "to change inert ingredient"; "general label revisions of precautionary statements," etc.

Packaging and Container Information

Section III - This Section must be completed for all applications submitted in connection with New Registration.

- Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types. Indicate the size of the individual packets and number per retail container.
- Type of Retail Container Indicate type of container in which product will be marketed.
- Location of Net Contents Specify the net contents of all retail containers for your product.
- Size(s) of Retail Container Specify the net contents of all retail containers for your product.
- Location of Use Directions Indicate the location of the use directions for your product.
- Manner in which label is affixed to product Indicate the method product labeling is attached to retail container.

Contact Point

Section IV - This Section must be completed for all Registration and Amended Registration applications.

- 1-5. Self-explanatory.
- 6. EPA Use Only.

EPA Form 8570-1 (Rev. 9-88)

Lergie ()

CERTIFICATION WITH RESPECT TO CITATION OF DATA

EPA File Symbol/Reg. No	524-445	Date of Application February 14, 1991
Name of ProductMON-	35085 Herbicide	
Applicant's Name and Ad	dressMonsanto	Company
	Suite 11	.00
·	700 14th	Street, N.W.
	Washingt	on, D.C. 20005
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for all active method or cite	ve ingredients conta	Pesticide Data Submitters List ained in my product (Cite-all Selective Method). (Also sign ent below).
	Selective Method).	ted the studies which I
Date February 14, 1991	Signature	Sheda (d Sedwalt _ 2/14/91
1	Title Senio	r Registration Specialist
General Offer to Pay: persons, with regard to py FIFRA sec. 3(c)(1)(the approval of thi.	agree to pay compensation to other sapplication, to the extent required
Date February 14, 1991	Signature	Shula A Schuell 2/14/91 r Registration Specialist 244
	Title Senio	r Registration Specialist 244

Dr. Sheila A. Schuette Monsanto Company 700 14th Street NW., Suite 1100 Washington, DC 20005

Dear Dr. Schuette:

Subject: MON-35085 Herbicide (Control of Bormudagrass in Mall)

EPA Registration No. 524-445

Your Application Dated February 14, 1991

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. Please submit five (5) copies of your final printed labeling before you release the product for shipment. A stamped copy of labeling is enclosed for your records.

Sincerely yours,

Robert J. Taylor Product Manager (25) Pungicide-Herbicide Branch Registration Division (H7505C)

Enclosure

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Monsanto

Monsanto Company Suite 1100 700 14th Street, N.W. Washington, D.C. 20005

February 14, 1991

Document Processing Center (Amend)
Office of Pesticide Programs - H7504C
U.S. Environmental Protection Agency
1921 Jefferson Davis Highway
Crystal Mall #2, Room 226A
Arlington, Virginia 22202

Attention:

Mr. Robert J. Taylor

Product Manager (25)

Subject:

MON-35085 Herbicide (EPA Reg. No. 524-445)

Supplemental Label: Control of Bermudagrass in the Fall.

Dear Sir:

Enclosed for Agency review and approval are five (5) copies of a supplemental label for MON-35085 herbicide. This supplemental label provides more specific guidance on the use of MON-35085 herbicide for the control of bermudagrass when applications are made in the fall.

An Application for Pesticide Amendment and Certification with Respect to Citation of Data and General Offer to Pay are enclosed.

If you have any questions regarding this request, please contact Dr. Kevin Cannon or me.

Sincerely,

Sheila A. Schuette, Ph.D. Senior Registration Specialist

Shile a Schwit.

(314) 694-7248

SUPPLEMENTAL LABELING

READ AND FOLLOW THE ENTIRE LABEL FOR MON+35085 HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label for MON-35085 herbicide and this supplement.

MON-35085 Herbicide by Monsanto

EPA Reg. No. 524-445

FOR DISTRIBUTION AND USE ONLY WITHIN DELAWARE, MARYLAND, NORTH CAROLINA, SOUTH CAROLINA AND VIRGINIA.

FOR CONTROL OF BERMUDAGRASS (WIREGRASS) IN THE FALL.

Keep out of reach of children.

WARNING!

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with the labeling.

This supplemental labeling and the label booklet for MON+35085 must be in the possession of the user at the time of herbicide application.

A¥OID CONTACT WITH FOLIAGE, GREEN STEMS, OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, SINCE SEVERE INJURY OR DESTRUCTION MÂY RESULT.

See "GENERAL INFORMATION", "APPLICATION EQUIPMENT AND "ECHNIQUES" and "CROPPING SYSTEMS" sections of the label booklet for MON-, 35085 for essential product information.

ACCEPTED

MAR 18 1991

Under the Federal Insecticide, Fungicide, and Radenticide Act, as amended, for the pesticide registered under EPA Reg. No.

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RECOMMENDATIONS

- Make applications in the fall when bermudagrass is actively growing. For bermudagrass that has been mowed, tilled or cut, allow regrowth prior to treatment.
- Apply 2 quarts of this product in 3 to 10 gallons of water per acre.
- 3. Add a nonionic surfactant at 0.5 to 1 percent of the total spray volume.
- 4. Use 3 to 5 quarts of this product per acre on thick, well established bermudagrass sods.
- Make applications using flat fan nozzles (8001.5, 8002, 8003).

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label booklet for MON-35085 before using this product. Those terms apply to this supplemental labeling and if those terms are not acceptable, return the product unopened at once.

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MONSANTO COMPANY AGRICULTURAL PRODUCTS ST. LOUIS, MISSOURI 63167

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Specialist

5. Date Signed

Sheila A. Schuette, Ph.D.

4. Typed Name

Paperwork Reduction Act Notice and Instructions

Paperwork Reduction Act Notice

Public reporting burden for this collection of information is estimated to average of 0.85 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

Instructions

General

This form is to be used for all applications for new and amended registrations for posticide products.

In order to process an application for new registration submitted on this form, the following material must accompany the application:

- Offer to Pay Statement (EPA Form 8570-27, -28, -29). (If not exempted by 40 CFR 162.9-1(b).)
- 2. Confidential Statement of Formula (EPA Form 8570-4).
- 3. Five copies of draft labeling.
- 4. Three copies of any data submitted.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on $8\ 1/2\ x$ 11 inch paper or as a mockup of the proposed label. If prepared as a mockup it should be constructed in such a way as to facilitate storage in an $8\ 1/2\ x$ 11 inch file. Mockup labels significantly smaller than $8\ 1/2\ x$ 11 inches should be mounted on $8\ 1/2\ x$ 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

Specific

Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Section I, III, and IV must be completed by the applicant. For applications submitted in connection with amended registration actions, Section I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

Section I - This Section must be completed for both Registration and Amended Registration actions.

- Contpany/Product Number Insert your company number, if
 one has been assigned. This number may have been assigned
 to you as a basic registrant, a distributor, or as an establishment. If application is for an amendment, insert the registration number of the product.
- · 2. Date Fill in the appropriate date.
 - Product Manager If known, fill in the name and number of the Product Manager
 - Proposed Classification Specify the proposed classification for this product.
 - 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters.

An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.

6. Product Name - Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.

Amendment Information

Section II - This Section must be completed for all applications submitted in connection with Amended Registration.

 Subject of Amendment - Check the appropriate block, and provide a brief explanation of the purpose(s) for the amendment, such as: "the addition of a site, post, or crop"; "to change inert ingredient"; "general label revisions of precautionary statements," etc.

Packaging and Container Information

Section III - This Section must be completed for all applications submitted in connection with New Registration.

- Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types. Indicate the size of the individual packets and number per retail container.
- Type of Retail Container Indicate type of container in which product will be marketed.
- Location of Net Contents Specify the net contents of all retail containers for your product.
- Size(s) of Retail Container Specify the net contents of all retail containers for your product.
- Location of Use Directions Indicate the location of the use directions for your product.
- Manner in which label is affixed to product Indicate the method product labeling is attached to retail container.

Contact Point

Section IV - This Section must be completed for all Registration and Amended Registration applications.

- 1-5. Self-explanatory.
- 6. EPA Use Only.

EPA Form 8570-1 (Rev. 9-88)

CERTIFICATION WITH RESPECT TO CITATION OF DATA

	CERTIFICATIO	ON WITH RE	SPECI TO CITATION OF DATA
EPA File Sym	bol/Reg. No	524-445	Date of Application February 14, 1991
Name of Prod	uctMON-35085 H	erbicide	
Applicant's	Name and Address	Mon	santo Company
	· ·	Sui	te 1100
		700	14th Street, N.W.
<u></u>		Was	hington, D.C. 20005
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fo: met	r all active ing	redients d option ur	the Pesticide Data Submitters List contained in my product (Cite-all der Selective Method). (Also sign tement below).
] Monsanto Compa ve cited (Select	ive Method	
Date February	14, 1991	Signatur	e Shula a Believed 3/14/91
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Date February	14, 1991	Signatur	Senior Registration Specialist 7-7
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The second second

Dr. Sheila A. Schuette Monsanto Company 700 14th Street NW., Suite 1100 Washington, DC 20005

Dear Dr. Schuette:

Subject: MON-35085 Herbicide (Tank-Mix with Lasso Micro-Tech in Corn and Soybeans)

EPA Registration No. 524-445

Your Application Dated Pebruary 14, 1991

The labeling referred to above submitted in connection with

registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. Please submit five (5) copies of your final printed labeling before you release the product for shipment. A stamped copy of labeling is enclosed for your records.

Sincorely yours,

Robert J. Taylor Product Hanager (25) Pungicide-Herbicide Branch Registration Division (H7505C)

. Enclosure

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Monsanto

Monsanto Company Suite 1100 700 14th Street, N.W. Washington, D.C. 20005

February 14, 1991

Document Processing Center (Amend) Office of Pesticide Programs - H7504C U.S. Environmental Protection Agency 1921 Jefferson Davis Highway Crystal Mall #2, Room 226A Arlington, Virginia 22202

Attention:

Mr. Robert J. Taylor

Product Manager (25)

Subject:

MON-35085 Herbicide (EPA Reg. No. 524-445)

Supplemental Label: Conservation Tillage, Minimum Tillage and No-Till Systems. Annual Weed Control in Corn and Soybeans. Tank

Mixtures with Lasso® Micro-Tech® Herbicide.

Dear Sir:

Enclosed for Agency review and approval are five (5) copies of a supplemental MON-35085 herbicide label. This label is intended to provide recommendations for control of annual weeds in corn and soybeans for minimum tillage systems. This supplemental label specifically provides more detailed mixing instructions and rate recommendations for tank mixtures.

An Application for Pesticide Amendment and Certification with Respect to Citation of Data and General Offer to Pay are enclosed.

If you have any questions regarding this request, please contact Dr. Kevin Cannon or me.

Sincerely,

Sheila A. Schuette, Ph.D.

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Senior Registration Specialist

(314) 694-7248

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ACCEPTED

SUPPLEMENTAL LABELING

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the position registered under

READ AND FOLLOW THE ENTIRE LABEL FOR MON-35085 HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label for MON-35085 herbicide and this supplement.

MON-35085 Herbicide by Monsanto

EPA Reg. No. 524-445

CONSERVATION TILLAGE, MINIMUM TILLAGE AND NO-TILL SYSTEMS.

ANNUAL WEED CONTROL IN CORN AND SOYBEANS.

TANK MIXTURES WITH LASSO® MICRO-TECH® HERBICIDE.

Keep out of reach of children.

WARNING!

In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000.

©Lasso and MICRO-TECH are registered trademarks of Monsanto Company.

Lasso MICRO-TECH herbicide is a Restricted Use pesticide.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with the labeling.

This supplemental labeling and the label booklet for MON-35085 must be in the possession of the user at the time of herbicide application.

AVOID CONTACT WITH FOLIAGE, GREEN STEMS, OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, SINCE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION", "APPLICATION EQUIPMENT AND TECHNIQUES" and "CROPPING SYSTEMS" sections of the label booklet for MON-35085 for essential product information.

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Black Commission

RECOMMENDATIONS

When applied as recommended under the conditions described, the tank mixtures listed in this supplemental labeling control many emerged weeds, and give preemergence control of many annual weeds where corn or soybeans will be planted directly into previous crop residues.

Refer to specific product labels for application rates, crop rotation restrictions and cautionary statements for Lasso® MICRO-TECH® herbicide and all products used in these tank mixtures. For mixing instructions, see the "Mixing, Additives and Application Instructions" section of the label booklet for Roundup® herbicide.

Apply these tank mixtures in 10 to 20 gallons of water or 10 to 60 gallons of nitrogen solution per acre before, during or after planting. Do not apply these mixtures after crop emergence.

When tank mixing with these residual herbicides:

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- Add an agriculturally approved nonionic surfactant at 0.5 percent by volume of spray solution, and
- 2. Add dry ammonium sulfate at 1 to 2 percent by weight (8.5 to 17 pounds per 100 gallons of water).

NOTE: When using these tank mixtures, do not exceed 4 quarts of this product per acre.

For residual control, this product may be tank-mixed with the following herbicides or combination of herbicides:

CORN HERBICIDES

LASSO® MICRO-TECH® ATRAZINE CYANAZINE PROWL™ SIMAZINE

SOYBEAN HERBICIDES

LASSO® MICRO-TECH® CANOPY™
COMMAND™ GEMINI™
LEXONE™ LINURON
LOROX™ PLUS PREVIEW™
SCEPTER™ SENCOR™

RATE RECOMMENDATIONS

 Apply 2 pints of this product per acre for difficult to control weeds such as fall panicum, barnyardgrass,

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shattercane and broadleaf signalgrass up to 2 inches tall, and Pennsylvania smartweed up to 6 inches tall.

2. Apply 1 to 1.5 pints of this product for other labeled annual weeds less than 6 inches tall, and 2 to 3 pints when weeds are greater than 6 inches tall.

For a complete list of annual weeds controlled, see the "Weeds Controlled" section in the label booklet for MON-35085 herbicide.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label booklet for MON-35085 before using this product. Those terms apply to this supplemental labeling and if those terms are not acceptable, return the product unopened at once.

[™]Sencor is a trademark of Bayer AG.

™Command is a trademark of FMC Corporation.

©MONSANTO COMPANY 1991

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MONSANTO COMPANY AGRICULTURAL PRODUCTS ST. LOUIS, MISSOURI 63167

[™]Canopy, Gemini, Lexone, Lorox Plus and Preview are trademarks of E.I. duPont de Nemours and Company.

^{*}Prowl and Scepter are trademarks of American Cyanamid Company.

Senior Registration

Specialist
5. Date Signed

Sheila A. Schuette, Ph.D.

Paperwork Reduction Act Notice and Instructions

Paperwork Reduction Act Notice

Public reporting burden for this collection of information is estimated to average of 0.85 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

Instructions

General

This form is to be used for all applications for new and amended registrations for pesticide products.

In order to process an application for new registration submitted on this form, the following material must accompany the application:

- Offer to Pay Statement (EPA Form 8570-27, -28, -29). (If not exempted by 40 CFR 162.9-1(b).)
- 2. Confidential Statement of Formula (EPA Form 8570-4).
- 3. Five copies of draft labeling.
- 4. Three copies of any data submitted.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on $8.1/2 \times 11$ inch paper or as a mockup of the proposed label. If prepared as a mockup it should be constructed in such a way as to facilitate storage in an $8.1/2 \times 11$ inch file. Mockup labels significantly smaller than $8.1/2 \times 11$ inches should be mounted on $8.1/2 \times 11$ inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

Specific

Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A., for which you are submitting this application. For applications submitted in connection with New Registration actions, Section I, III, and IV must be completed by the applicant. For applications submitted in connection with amended registration actions, Section I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

Section I - This Section must be completed for both Registration and Amended Registration actions.

- Company/Product Number Insert your company number, if one has been assigned. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If application is for an amendment, insert the registration number of the product.
- 2. Date Fill in the appropriate date.
- 3. Product Manager If known, fill in the name and number of the Product Manager.
- Proposed Classification Specify the proposed classification for this product.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters.

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6. Product Name - Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.

Amendment Information

Section II - This Section must be completed for all applications submitted in connection with Amended Registration.

 Subject of Amendment - Check the appropriate block, and provide a brief explanation of the purpose(s) for the amendment, such as: "the addition of a site, pest, or crop"; "to change inert ingredient"; "general label revisions of precautionary statements," etc.

Packaging and Container Information

Section III - This Section must be completed for all applications submitted in connection with New Registration.

- Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types. Indicate the size of the individual packets and number per retail container.
- Type of Retail Container Indicate type of container in which product will be marketed.
- Location of Net Contents Specify the net contents of all retail containers for your product.
- Size(s) of Retail Container Specify the net contents of all retail containers for your product.
- Location of Use Directions Indicate the location of the use directions for your product.
- Manner in which label is affixed to product Indicate the method product labeling is attached to retail container.

Contact Point

Section IV - This Section must be completed for all Registration and Amended Registration applications.

- 1-5. Self-explanatory.
- EPA Use Only.

EPA Form 8570-1 (Rev. 9-88)

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EPA Form 8570-1 (Nevi 4 88) (min in in

CERTIFICATION WITH RESPECT TO CITATION OF DATA

EPA File Symbol/Reg. No.	Date of Application February 14, 199
Name of Product MON-35085 Her	bicide
Applicant's Name and Address	Monsanto Company
	Suite 1100
	700 14th Street, N.W.
	Washington, D.C. 20005
application. In addition, if is supported by all data in the effects of this product or substantially similar, and the required to be submitted if the of a product of identical or	pported by all data submitted or cited in the cite-all options are indicated, this application the Agency's files that concern the properties or of any other product that is identical or that is one of the types of data that would be this application sought the initial registration similar composition and intended uses under the on the date of approval of this application.
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34.7 I certify that, for each registration that is <u>not</u> an e	study cited in support of this application for exclusive use study:
I have obtained the writ	ten permission of the original data submitter to
cited to support those compensation for those 3(c)(2)(D) of the Federa (b) Commence negotiation compensation requirements	ing the companies who have submitted data I have applications and have offered to: (a) Paydata in accordance with section 3(c)(1)(0) and I Insecticide, Fungicide and Rodenticide Act; and ns to determine which data are subject to the sof FIFRA and the amount and terms of compensation ies I have notified are: (Check one)
for all active ingr method or cite-all	isted on the Pesticide Data Submitters List edients contained in my product (Cite+all option under Selective Method). (Also sign o Pay Statement below).
<pre>(X] Monsanto Compan have cited (Selecti</pre>	y has submitted the studies which I ve Method).
Date February 14, 1991	Signature Shula (Sulvell 2/14/9)
•	Title Senior Registration Specialist
	eby offer and agree to pay compensation to other proval of this application, to the excent required 3(c)(2)(D).
Date February 14, 1991	Signature Ship Whelesto 2/14/91
	Signature Senior Registration Specialist 261

18 85

Mr. Roy G. Danhaus Monsanto Company 700 14th Street NW., Suite 1100 Washington, DC 20005

Dear Mr. Danhaus:

EPA Form 1320-1 (12-70)

Subject: MOM-35085 Herbicide (Lawn and Homeowner Name and Use Directions)

EPA Registration No. 524-445

Your Application Dated February 20, 1991

 $\mathcal{F}_{\mathcal{F}(\zeta_{\mathcal{F}, \mathrm{loc}})}$

The additional brand name "MON 35085 Super Concentrate Grass and Weed Killer" is acceptable and currecords have been modified accordingly.

The amendment referred to above, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you:

- Submit/cite all data required for registration/reregistration
 of your product under FIFRA section 3(c)(5) or 4(a) when the
 Agency requires all registrants of similar products to submit
 such data.
- 2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
 - The EPA Registration No. 524-445 must appear on both the container label and the pamphlet.
- 3. Submit five (5) copies of your final printed labeling before you release the product for shipment.

54426:I:CR-44:Walters:L25-1:KEVRIC:03/04/91:13/08/91:TK

CONCURRENCES									
ЗАМВОГ									
SURNAME	1			ĺ				262	
DATE									

OFFICIAL FILE COPY

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

to the transplant

Sincerely yours,

Belleville from the second of the second of the second of the second of the second of the second of the second

Robert J. Taylor Product Manager (25) Fungicide-Herbicide Branch Registration Division (H7505C)

Enclosure



Super Concentrate



by Monsanto

Grass & Weed Killer

- * COYERS UP TO 6300 SQUARE FEET
- * XILLS UNWANTED LADELED BRASSES AND WEERS STSTEMICALLY-MODITE AND AL
- S BOLLS HOLL HOLL SOIL ACTIVITY.
- · SUTTABLE FOR USE ARDUM FLOWER BEDS, TREES, SHRUBS, FENGES AND DRIVEWAYS
- * USE TO PREPARE MARDEM SITES AND RENDVATE LAWKS

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Keep out of reach of children.

WARNING! ALLE OFFICE PART

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NET 32 fl. oz. (1 gt)

\$41.13**-500**.1464

Change to: MON 35085

Add:

 $1\frac{1}{3} - 2\frac{1}{3}$ fl oz per gallon of water

Change to:

Kills labeled annual and perennial grasses, weeds and sedges

: bba

Systemic Action-Kills Roots and All

Move to:

ACCEPTED

MAR 1 8 1991

was the species of

Under the Faderal Insecticide. Fungicide, and Rodenscide Act. as amended, for the pesticide registered under 14-445 EPA Reg. No. 574-445

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Caratelly mad and tollow detailed instructions in pamphles. PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Keep out of reach of children.

4 6

WARNING! CAUSES EYE IRRITATION. HARMFUL IF SWALLOWED OR INHALED: MAY CAUSE SKIN (RRITATION, DO NOT get in eyes, on skin or on clothing. Avoid breathing scope or spray mist. Was-shoroughly with soap and water after handling. FIRST AID. If IN ETES, inabality fluor with planty of with wast 15 growths.

ICS) AUX 17 FE CLEA, WILLIAM CONTROL AT STATE OF THE C

If SWALLDWED, this possess will cause gastmointermed tract irritation. Immediately distribute by-ambiliowing water or mult. Set medical selections is involved, genome undersides to fresh see. Get medical attention to beauting particularly develops.

to case of an entergency inverting this product. Call Callect, day or algat, (3)4) 694-4000.

Environmental Hazards

On not apply directly to water or wetland (swamps, bugs, marsnes or possesses). On not contaminate water when disposing of equipment washwaters.

Physical or Chemical Hazaros

Spray solutions of this product should be missed, stored and applied only in statiless steet, abunium, libergless, plactic and plastic-timed steet containers, DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF DIS PRODUCT IN GALYANIZED STEEL OR UNLINED STEEL (EXCEPT STAINNESS STEEL) CONTAIN-ERS DR SPRAY TANKS, (See additional Presentions unside Parmohlel.)

Storage and Disposal

Do not contaminate water, food, feed or seed by storage or disposal, STDRAME: Store this product in its original container and on a secured contage area in case of SPILL or LEAR, such ab with paper towers and discuss of others. DISPOSAL: to dispose of coursed product, securely wrap original container on general layers of pre-spaper and discuss or trans.

Tempty container returns report and product residue, Observe all labeleo safeguards.

Empty container retains whom and product residue. Observe all labeled safeguard until container is discarded.

Do not reuse container. Rinse (Acrosophi) before discarding to Dash,

This product is protected by U.S. Patents No. 1,799,758, No. 4,405,511 and No. 4,840,550. Other patents bending. No liceuse granted under any non-U.S. cataonata e-landersaria of Modulato Company. ©MONSARIA COMPANY 1990. MONSARIA COMPANY 496. MONSARIA COMPANY 4-45HIGHTURAL PRODUCTS - 57 LOUIS, MISSOURI 83187-015A. EPA Etg. 524-UA. FPA Reg. No. 524-304-44. 29/11/000/14/13

Change to:

WARNING!

CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY. HARMFUL IF INHALED.

Do not get in eyes or breathe spray mist or get in or on clothing.

Wear goggles, face shield or safety glasses.

Wash thoroughly with soap and water after handling.

Remove contaminated clothing and wash before reuse.

FIRST AID: IF IN EYES, hold eyelids open and flush with plenty of water. Get medical attention.

IF INHALED, remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF SWALLOWED, drink promptly a large quantity of milk, egg whites, or gelatin solution. If these are not available drink large quantities of water. Get medical attention.

Add: Picture of telephone receiver

Change to: 91

Change to: MON 35085

KEEP PEOPLE AND PETS OFF THEATED AREAS UNTIL BPRAY SOLUTION HAS DRIED.

DOMESTIC ANIMALS: This product is considered to be relatively noncond to dogs and other domestic animals. However, indeption of this product or large amounts of reship spreads deptition may result in temperary gastromestical initiation (vomiting, duanties, coin, etc.). If such symptoms are observed, provide the animal with plenty of duids to prevent perspectation. Call a veternation if symptoms persist for more than 24 hours.

ADDITIONAL PRECAUTIONS

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS & FEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, texaining senous personal enjury, if ignited by cosm thams, sparx, wester a form, fighted organization source.

DIRECTIONS FOR USE

It is a violation of Faderal law to use this product in any manner incompatent with its labeling.

from duo is a consistency frencious that is diluted and applied to the foliage of acrysty growing weeds as a sport of broadcast application, it is absumpted by the leaves and

PROOF OF PURCHASE

266

Add: Picture of telephone
 receiver

moves throughout the stem and roots to control the entire plant. Visible symptoms may require a week or more to appear, with burndown usually occurring in 2 to 4 weeks. Symptoms are a gradual witting and yellowing of the spreyed plant followed by deterioration of both shoots and roots. This product has no heroicidal activity in the soil and will not wash or leach to affect nearby vegetation.

This product controls many weeds around buildings, vacant lots, storage and recreational areas, gravel or ground back mulch, shade trees, ornamentals and shrubs; along tences, adequalits, driveways and pation; to planting unfgrasses, snrubs, tower beds or vegetables listed on the label. When used as a spot freshment in lawns, all vegetation contacted will be damaged.

THIS PRODUCT CAN INJURE OR DESTROY ALL VEGETATION CONTACTED. AVOID SPRAY DRIFT CONTACT WITH DESIRABLE LAWN GRASSES, FLOWERS, VEGETABLES, SHRUBS OR TREES, DO NOT CONTACT GREEN BARK OF TREES OR SHRUBS. IF DESIRABLE VEGETATION IS CONTACTED, WASH IMMEDIATELY WITH WATER.

For more product information, call toll-free 1-800-225-2883.

Storage and Disposal

. Do not contaminate water, food, feed or seed by storage for plisposal.

STORAGE:

Store this product in its original container and in a secured storage area.

in case of SPILL or LEAK, some up with paper towers and discard in trash.

2

7.6"

DISPOSAL

To distribuse of unclased product, securety wreap original conlatment in several layers of newspaper and discharp in Institu

Erroxy commings repairs vapor and product regions. Observe all libered safeguates until community in discarded.

Do not felse container. Alime thereughty before discursing in trace.

WEEDS CONTROLLED

When applied as recommended under the conditions described. Postnoyb controls many common weeds including the following:

Attnumbe

Barryerograss
Bluegrass, Annual
Chickweed
Crabgrass
Foxial

Fortail
Lambrovaner, common
tettuca, prickly
Mustard, tensy

Permycrean, field Pigwena; rocirca, emocth Hagwena, common Ryegraa, annual Sandbur, field Shebberthourse Southerth

Porenniais

Bahiagnas
Bernvosgras
Binowene field
Bluegras Annivity
Bromegras, smooth
Clover red, wase
Dalistyras
Discribion
Fearup soccas
Fearup soccas

Johnsongrass
Nichacqe; purpre, yellow
Orchacqcass
Quantigrass, perennial
Thistle, Canada
Timistry
Vaneygrass

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268-

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Brush

Alder **Эмскоолу** Charry

Polison My Poison Oak Respirerry Aces, myttiffors Sumac

DESCRIPTION Eldermen PERMIT

Trum Detic/Taxour

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Willow

MIXING AND SPRAYING

On not apply this present through any type of irrigation System.

Hand-hald Sgrayers - Add 1-1/2 to 2-1/2 field ounces (8 to 5 fbsc. | of this product to 1 gallen of mean werer, the the higher recommended rate for common of librar personals and brigh. Use outto-up type of hund-trigger-type sprayers. USE OF HOSE-END SPRAYERS OR SPRINKLER-TYPE DEVICES MAY RESULT IN POOR AND/OR ERRATIC RESULTS.

Ensure uniform and complete sorely coverage, put do not SOME SERVICE TO THE DOING THAT THE REPORT SOMETHING THAT OF Use и соеле вогну. Оо пох крлку силупф чилоу калагохиче. as soray out may cause damage to any vegetation CONTRACTOR.

WHEN TO APPLY

Apply to vigorowsky growing plants. Apply to annual weeds anytime after emergence. For pers results, apply IS DEPENDED WOULD Ship bouchours, However or berness appear. On wordy bright or inset, apply after leaves have fully extranged. Applications made at less than the геостипенской взаде об размет тау кезыл и песьово одиtroi. After mowing, chapping or tilling, allow weeds to

新

ing this product.

Reinfall or watering within & hours after application can wash the prosect of glant tollage which may require retreatment. Dalay mounts, clipping, tilling, planning of sociality of treated areas for at tease? To days after application. This allows time for this product to move within the plant for most effective results. SINCE THIS PRODUCT COES NOT WORK IN SOIL, RETREATMENTS WILL BE NECESSARY TO CONTROL NEW WEEDS EMERGING FROM SEED.

One socialization will continue most weards listed, Symblists on contain toping personal meetos and woods brush and the species may be \$10 m to develop, if corprol is not achieved within 4 weeks, allow time for the spread weeks to region and make a reposit absolution, in some Cases, Control of seconly brush and thesis meaned in the lab may not be tully apparent until the following seasons.

LAWN RENOVATION

Best results are cotained when at mass one intering is skipped oner to treatment. This province received autitable to intercept the spray. For sneas where temperature and researcing is desired, thorough some coverage of all existing regestation is necessary. Cover preming of acid-ding of treated sneas for at lease? I days preming of acid-ding of treated sneas for at lease? I days along application.

CRNAMENTALS

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The state of the s

Any ornamental administrative to passed in tracked arease 2 days or more after application. Apply this product \$3 facommanded to corong unbestrable vegestron growing aroung ornamentals, trake or structus. Acode sarely common with any contribute plants. To avoid injury on daminists plants, or over the product with following plants, or over the product of the common with follows, status or green teams. Do not appropriate, or over the top of, prowing britainentals.

er versielen die Station von der

Add: Picture of telephone receiver

TREES (Apple, Citrus, Nut. Pear) AND GRAPEVINES

Apply this product to commit undesurable plants growing aroung these trees and vines. Spray contact, other than with mature bank of the main trunk, can injure the tree or vine. Allow 21 days between application and harvest.

BERRIES, SMALL FRUIT & VEGETABLE GARDENS

The following vegetables may be planted in freated areas 7 days or more after application: asparagus, beans, beets greens, beets, blackberry, blueberry, boysenberry, proccedii, cabbage, carrot, cauliflower, calery, cnicory, compressive, calery, chicory, compressive, calery, chicory, compressive, gartic, gounds, godseberry, horsensdish, huckleberry, Jerusalem articolos, kale, lemila, lettuce, logan-berry, melons, mustaro greens, lora, olialisberry, onion, paranins, peas, peopers, Irish and sweet potables, pumpkin, radish, raspberry (black, red), rutabagas, spinach, squash (summer, winter), strawberry, tomatilo, tomato', watercress, watermeton and turnios, in the treated area, do not plant any vegetables not listed on this label for one year following application. On not apply this product in or around growing vegetables.

"Und for symmetric to restricted at direct species symmetric provi

1 CLEANING EQUIPMENT

Triple-rinse spray tank and flush all sprayer components with water to remove residues of this product. After thorough cleaning, equipment may be used to apply other products.

In case of an emergency involving this product.
Call Collect, day or night, (314) 694-4000.

6

Change to: MON 35085

Change to: 1991

Roundup Super Concentrate

Nonselective heroicide for lawn and garden use. Avoid apray on desirable plants as severe injury or destruction may result.

Read "NOTICE" in next paragraph before buying or using, if ferms are not acceptable, return at once "Period.

BUTCE: BUYER ASSUMES ALL RESPONSIBILITY FOR SAFETY AND USE NOT IN ACCORDANCE WITH DIRECTIONS IN THIS LABELING.

REFORMULATION OR REPACKAGING IS PROHIBITED.

ACTIVE INGREDIENT:

*Contains 480 grams per litre or 4 bounds per U.S. gatton of glyphosate, N-(phosphonomethyl) glycine, in the form of its isopropylamine salt.

This product is protected by U.S. Patents No. 3,799,758. No. 4,405,531 and No. 4,840,650. Other patents pending. No license gramed under any non-U.S. patent(s).

© MONSANTO COMPANY 1999

MONSANTO COMPANY AGRICULTURAL PRODUCTS OF LOUIS, MISSOURI 63167 U.S.A.



Carefully read and follow detailed instructions in pamphlet. PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Keep out of reach of children.

4 7

WARNING! CAUSES EYE IRRITATION, HARMFUL IF SWAL-LOWED OR INHALED, MAY CAUSE SKIN IRRITATION. Do not get in eyes, on skin of an clothing. Avoid breatning vapor or spray-mist. Wash thoroughly with south and water after handling.
FIRST AID. If IN EYES, immediately flush with Disputed water for at Items 15 minories. Get

IF ON SAIM, immediately flush with photy of water. Remove contaminated clothing, frash clothing before reuse.

clothing before reuse.

If SWALLOWED, this amount will cause gustroonterwight tract unitation. Immediately tilute by shallowing water or milk. Get medical attention.

If INHALED, remove individual to treat an Get medical affection of preating deficulty

In case of an emergency involving this product. Call Collect, day or night (314) 694-4000.

Environmental Hazards

Do not apply directly to water or wetland (swamps, boars, marshes or politicies). So not confaminate water when disposing of equipment washwaters

Physical or Chemical Hazards

Spray salutions of this product should be mixed, where and abouted only in Plaintess steel, aluminorm, therefare, dutte lad blastic-based steel containers. On NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR LIMITINED STEEL (DUCTY STAINLESS STEEL) CONTAINERS OR SPRAY THINAS.

(SEE ADDITIONAL PRECAUTIONS INSIDE PAMPHLET.)

LIAZOPRIO DAN SDAROTE ROP TELHPINAP

This product is protected by U.S. Pateons No. 1,799,758, No. 4,405,531 and No. 4,840,650. Other patents gending, his license granted under any mon-U.S. gatentisk



WONSANTO COMPANY AGRICULTURAL PRODUCTS ST LOUIS MISSOURI 63167 H.S.A. © MONSANTO COMPANY 1990 EPA Reg. No. 524-380 ← [PA Ext. 524-44] 897.17-000.141.2

Change_to:

WARNING!

CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY. HARMFUL IF INHALED.

Do not get in eyes or breathe spray mist or get in or on clothing.

Wear goggles, face shield or safety glasses.

Wash thoroughly with soap and water after handling.

Remove contaminated clothing and wash before reuse.

FIRST AID: IF IN EYES, hold eyelids open and flush with plenty of water. Get medical attention.

IF INHALED, remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF SWALLOWED, drink promptly a large quantity of milk, egg whites, or gelatin solution. 'It these are not available drink large quantities of water. medical attention.

Add: Picture of telephone receiver

Change to: 91 XXX

5. Date Signed

Roy G. Danhaus

4. Typed Name

CERTIFICATION WITH RESPECT TO CITATION OF DATA

EPA File Symbol/Reg. No. 524-	Date of Application February 20, 1991
Name of ProductMON-	-35085 Super Concentrate Grass & Weed Killer
Applicant's Name and Address	Monsanto Company
	700 14th Street, N.W., #1100
·	Washington, D.C. 20005
application. In addition, i is supported by all data in effects of this product of substantially similar, and required to be submitted if of a product of identical of	upported by all data submitted or cited in the f cite-all options are indicated, this application the Agency's files that concern the properties or or of any other product that is identical or that is one of the types of data that would be this application sought the initial registration r similar composition and intended uses under the on the date of approval of this application.
registration that is an ex	ch study cited in support of this application for clusive use study, I have obtained the written data submitter to cite that study.
3. i I certify that, for ear registration that is not an	ch study cited in support of this application for exclusive use study:
I have obtained the wri	itten permission of the original data submitter to
cited to support tho compensation for those 3(c)(2)(D) of the Feder (b) Commence negotiaticompensation requirements	ring the companies who have submitted data I have se applications and have offered to: (a) Pay data in accordance with section 3(c)(1)(D) and al Insecticide, Fungicide and Rodenticide Act; and ons to determine which data are subject to the its of FIFRA and the amount and terms of compensation anies I have notified are: (Check one)
for all active inc method or cite-all	listed on the Pesticide Data Submitters List gredients contained in my product (Cite-all loption under Selective Method). (Also sign to Pay Statement below).
<pre>(X) Monsantc Compa have cited (Select</pre>	any has submitted the studies which I tive Method).
Date February 20, 1991	Signature Roy J. Danin
	Title Registration Manager
	reby offer and agree to pay compensation to other approval of this application, to the extent required (3(c)(2)(D).
Date February 20, 1991	Signature For D. Janhan
	Title Registration Manager 215

Monsanto

Monsanto Company Suite 1100 700 14th Street, N.W. Washington, D.C. 20005

.20 February 1991

Document Processing Desk (AMEND)
Office of Pesticide Programs
U.S. Environmental Protection Agency
1921 Jefferson Davis Highway
Crystal Mall #2, Room 266A
Arlington, Virginia 22202

Attention:

Mr. Robert J. Taylor

Product Manager (25)

Subject:

MON 35085 Herbicide (EPA Reg No. 524-445)

Submission of a Draft Label for MON 35085 Super Concentrate Grass & Weed Killer,

a Lawn & Garden or Homeowner Product

Dear Sir:

The Agency approved the draft label for MON 35085, a formulation containing 41% glyphosate active ingredient isopropylamine salt on 1 February 1991. That draft label contained directions for use in both crop and noncrop applications similar to those found on the Roundup Herbicide label (EPA Reg. No. 524-308).

Monsanto is now submitting a label for the lawn & garden (homeowner) uses of MON 35085 for Agency approval. The MON 35085 Super Concentrate Grass & Weed Killer label is identical to the currently approved Roundup Super Concentrate Grass & Weed Killer in terms of Directions For Use and it carries the signal word and precautionary text recently approved for MON 35085. In effect then, the MON 35085 Super Concentrate Grass & Weed Killer label is the MON 35085 analogue to the Roundup Super Concentrate Grass & Weed Killer currently registered and sold.

We are submitting five copies of the draft 1 quart container labels for MON 35085 Super Concentrate Grass & Weed Killer. The label consists of a front panel and a back panel which incorporates the fix-aform pamphlet. Also enclosed is a completed Application for Pesticide Registration.

We would appreciate your review and approval of this label as soon as possible. If there are any questions regarding this submission, please contact Kevin Cannon at (202) 783-2460.

Sincerely,

Roy G. Danhaus Registration Manager

CC.

M. N. Cline M2C

D: M. Fee-White N3G

R. P. Schneider

S. A. Schuette

..... 276

TELEPHONE: (202) 783-2460

FACSIMILE: (202) 783-2468

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Dr. Sheila A. Schuette Monsanto Company 700 14th Street NW., Suite 1100 Washington, DC 20005

Dear Dr. Schuette:

Subject: MON-35085 (Weed Control Prior to Emergence of Tomatoes in California)

EPA Registration No. 524-445

Your Letter Dated February 14, 1991

The amendment referred to above, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Pungicide, and Rodenticide Act (PIFRA), is acceptable provided that you:

- 1. Submit/cite all data required for registration/reregistration of your product under PIFRA section 3(c)(5) and section 4 when the Agency requires all registrants of similar products to submit such data.
- Subsit five (5) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

Robert J. Taylor Product Manager (25) Fungicide-Berbicide Branch Registration Division (87505C)

Enclosure

54426:I:CR-43:Walters:L25-1:KEVRIC:03/04/91:13/08/91:TK

	CONCURRENCES										
SYMBOL	#12025										
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Monsanto

Monsanto Company Suite 1100 700 14th Street, N.W. Washington, D.C. 20005

February 14, 1991

Document Processing Center (Amend) Office of Pesticide Programs - H7504C U.S. Environmental Protection Agency 1921 Jefferson Davis Highway Crystal Mall #2, Room 226A Arlington, Virginia 22202

Attention:

Mr. Robert J. Taylor Product Manager (25)

Subject:

MON-35085 Herbicide (EPA Reg. No. 524-445)

Supplemental Label: Weed control prior to emergence of tomatoes in

California.

Dear Sir:

Enclosed for Agency review and approval are five (5) copies of a supplemental label for MON-35085 herbicide recommending the use of MON-35085 prior to the emergence of tomatoes. This label is for use in California only. The recommended application rates do not exceed those currently approved on the MON-35085 label herbicide label and therefore tolerances are not an issue.

An Application for Pesticide Amendment and Certification with Respect to Citation of Data and General Offer to Pay are enclosed.

If you have any questions regarding this request, please contact Dr. Kevin Cannon or me.

Sincerely,

Sheila A. Schuette, Ph.D. Senior Registration Specialist

Sheila a Schwill

(314) 694-7248

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SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL BOOKLET FOR MON+35085 BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the booklet for MON-35085 herbicide and this supplement.

MON-35085 Herbicide by Monsanto

EPA Reg. No. 524-445

FOR DISTRIBUTION AND USE IN CALIFORNIA

FOR POSTEMERGENCE WEED CONTROL PRIOR TO THE EMERGENCE OF TOMATOES

Keep out of reach of children.

WARNING!

In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of herbicide application.

AVOID CONTACT WITH FOLIAGE, GREEN STEMS, OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, SINCE SEVERE INJURY OR DESTRUCTION MAY RESULT.

When applied as directed under the conditions described in the label booklet for MON-35085, the product controls annual and perennial weeds listed on that label, prior to the emergence of tomatoes.

See the "GENERAL INFORMATION", "MIXING, ADDITIVES AND APPLICATION INSTRUCTIONS", "APPLICATION EQUIPMENT AND TECHNIQUES" and "WEEDS CONTROLLED" sections of the label booklet for MON-35085 for essential product performance information.

ACCEPTED

1

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 280-

This product may be applied by ground or aerial application equipment. FOR AERIAL APPLICATION IN CALIFORNIA, REFER TO THE FEDERAL SUPPLEMENTAL LABEL FOR AERIAL APPLICATIONS IN THAT STATE FOR SPECIFIC INSTRUCTIONS, RESTRICTIONS AND REQUIREMENTS, AND DO NOT EXCEED A RATE OF 1 QUART PER ACRE.

Applications made to light, sandy soils with low organic matter may result in injury to seedling tomatoes.

Applications made at emergence will result in injury or death to emerged seedlings.

RECOMMENDATIONS

This product will control annual and perennial weeds listed in the label booklet for MON-35085 prior to the emergence of direct seeded tomatoes.

Annual Weed Control--Apply 8 to 48 fluid ounces of this product per acre plus 0.5 to 1 percent nonionic surfactant in 3 to 10 gallons of water per acre as directed in the "Low-Volume Broadcast Applications" section of the label booklet for MON-35085.

When using 10 to 40 gallons of water per acre, use 1 quart of this product if annual weeds are less than 6 inches tall. If weeds are greater than 6 inches tall, use 1.5 quarts of this product per acre.

Perennial Weed Control--Apply 3 to 5 quarts of this product per acre when weeds are actively growing and most have reached early head or early bud stage of growth. See the "Perennial Weeds" section of the label booklet for MON-35085 for perennial weeds controlled and for specific treatment recommendations.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label for MON-35085 before using this product. Those terms apply to this supplemental labeling and if those terms are not acceptable, return the product unopened at once.

©MONSANTO COMPANY 1991

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MONSANTO COMPANY
AGRICULTURAL PRODUCTS
ST. LOUIS, MISSOURI 63167

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EPA Form 8570-13 (3-75)

Sheila A. Schuette

EPA Form 8570-1 (Rev. 4-88) Previous editions are obsolete.

CERTIFICATION WITH RESPECT TO CITATION OF DATA

•	
EPA File Symbol/Reg. No. 524	Date of Application February 14, 1991
Name of Product MON-35085 Herbic	ide
Applicant's Name and Address	Monsanto Company
	Suite 1100
	700 14th Street, N.W.
	Washington, D.C. 20005
application. In addition, if ci is supported by all data in the effects of this product or c substantially similar, and that required to be submitted if thi of a product of identical or si	rted by all data submitted or cited in the te-all options are indicated, this application Agency's files that concern the properties or if any other product that is identical or is one of the types of data that would be application sought the initial registration milar composition and intended uses under the the date of approval of this application.
 I certify that, for each strength registration that is an excluse permission of the original data 	tudy cited in support of this application for ive use study, I have obtained the written submitter to cite that study.
$\mathfrak{I}_{rac{1}{4}}$ I certify that, for each so registration that is <u>not</u> an excl	tudy cited in support of this application for usive use study:
I have obtained the written cite that study; or	permission of the original data submitter to
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for all active ingredi	ed on the Pesticide Data Submitters List ents contained in my product (Cite-all ion under Selective Method). (Also sign ay Statement below).
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Date February 14, 1991 Signate	mature Shule a belieft 2/14/91
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RT

HERBICIDE BY

Monsanto

For control of annual and perennial weeds in reduced tillage systems.

Carefully follow detailed instructions in attached label booklet

AVOID CONTACT WITH FOLIAGE, GREEN STEMS, OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES SINCE SEVERE INJURY OR DESTRUCTION MAY RESULT.

Read the entire label before using this product.

Lise only according to label instructions.

Read "LIMIT OF WARRANTY AND LIABILITY", which appears in the label booklet, before buying or using. If terms are not acceptable return at once unopened.

The contents of this container may not be REFORMULATED, nor, except in accordance with the Monsanto Repackaging Agreement, REPACKAGED.

PRECAUTIONARY STATEMENTS

Hazarda to Humans and Domestic Animals

Keep out of reach of children.

WARNING!

CAUSES SUBSTANTIAL BUT TEMPORARY EYE PUURY.

HAPAIFLE IF INHALED.

Do not get in eyes or b, aathu spray cities or get in or on clothing.

Wear googles, thos shirld or salaty glassia: Wash thoroughly with suap sind water after; handling.

Remove contaminated clothing and wash before

FIRST AID: IF IN EYES, hold syelide coun and flush with plenty of water. Get medical attention.

IF INHALED, remove viotim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF SWAtt.OWED, drink promptly a large quantity of milk, egg whites, or gelatin solution. If these are not available drink large quantities of water. Get medical attention.

In case of emergency involving this product, Call Collect, day or night, (314) 594-4000.

Environmental Hazards

Do not apply directly to water or wetland (swamps, bogs, marshes or potholes). Do not contaminate water when disposing of equipment washwaters.

Physical or Chemical Hazards

Spray solutions of this product should be mixed, stored and applied only in stainless steel, aluminum, fiberglass, plastic and plastic-lined steel containers.

DO NOT MIX. STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL DR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAIN-ERS DR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce

hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spars, welder's torch, lighted cigarette or other ignition source

DIRECTIONS FOR USE

ft is a violation of Federal law to use this product in any manner inconsistent with its labeling

Storage and Disposal

Do not contaminate water, foodstuffs, seed or feed by storage or disposal.

DISPOSAL:

Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

Do not reuse container. Return emptied container per the Monsanto container return program. If not returned, Inple rinse container, then puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(See label booklet for Complete Directions for Use.)
ACTIVE INGREDIENT:

100.09

*Contains 480 grams per litre or 4 pounds of the active ingredient, glyphosate, in the form if its isopropylamine salt.' Equivalent to 356 grams per litre or 3 pounds per U.S. gallon of the acid, glyphosate.

This product protected by U.S. Patents No. 3,799,756, No. 4,405,531 and No. 4,840,650. Other patents pending, No license granted under any non-U.S. patent(s).

Registered trademark of Monsanto Company

EPA Reg. No. 524- 445

© MONSANTO COMPANY 1994

In case of emergency involving this product, Call Collect, day or night, (314) 694-4000.

MONSANTO COMPANY AGRICULTURAL PRODUCTS ST. LOUIS, MISSOURI 63167 U.S.A. Monsanto

878.IS-000-04

PLACE Complete Directions For Use Booklet HERE

NET CONTENTS

EPA Est.

ACCEPTED

Under the Federal Insecticido, Fungicido, and Rodenticide Act, as amended, for the posticide registered under EPA Rog. No.5-24-444

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Dr. Sheila A. Schuette Monsanto Company 700 14th Street NW., Suite 1100 Washington, DC 20005

Dear Dr. Schuetter

Subject: MON-35085 (Additional Brand Name and Uses) () : EPA Registration No. 524-445 Your Application Dated February 22, 1991

The additional brand name "MON 35085 RT" is acceptable and our records have been modified accordingly.

The amendment referred to above, submitted in connection with registration under section $B(\sigma)(T)(A)$ of the Pederal Insecticide, fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you:

- Submit/cite all data required for registration/reregistration
 of your product ender FIFRA section 3(c)(5) and section 4 when
 the Agency requires all registrants of similar products to submit
 such data.
- 2. Submit five (3) copies of your final printed labeling before you release the product for shipment.

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CONCURRENCES										
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If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

Robert J. Taylor Product Manager (25) Fungicide-Herbicide Branch Registration Division (H7505C)

Enclosure

Monsanto

Monsanto Company Suite 1100 700 14th Street, N.W. Washington, D.C. 20005

February 22, 1991

Document Processing Center (AMEND)
Office of Pesticide Programs - H7504C
U.S. Environmental Protection Agency
1921 Jefferson Davis Highway
Crystal Mall #2, Room 226A
Arlington, Virginia 22202

Attention: Mr. Robert J. Taylor

Product Manager (25)

Subject: MON-35085 Herbicide (EPA Reg. No. 524-445)

Request for Additional Brand Name and Amended Use Instructions

Dear Sir:

1

Monsanto is submitting for Agency review and approval an additional brand name request and amended label text for MON-35085 RT. MON-35085 RT will be selectively marketed in agricultural areas that practice reduced or limited tillage for moisture and soil conservation. The MON-35085 RT label text is extracted directly from the approved text on the current MON-35085 label booklet with the exception of the changes given below. All precautionary language is identical to the approved verbiage on the currently approved MON-35085 label.

The following changes have been made to the approved MON-35085 text for the MON-35085 RT label:

- 1. County Restrictions are given on pp. 1-4.
- 2. The ammonium sulfate rate is changed from 2 percent to 1 to 2 percent.
- 3. The Application Equipment and Techniques section has been modified to include only aerial, conventional ground or hooded spray equipment. The Sprayer Cleanup section is more prominent and more specific instructions have been provided.

- 4. Under Annual Weeds, a recommendation for the addition of 0.5% of a nonionic surfactant has been made.
- 5. <u>Jagged chickweed, jointed goatgrass, and annual spurge</u> have been added to the Annual Weeds section; the rate recommendations for several other annual weeds have been changed.
- 6. In the section on <u>Fallow and Reduced Tillage Systems</u>, the recommendation for <u>MON-35085 plus Goal[™]</u> has been changed to <u>MON-35085 RT plus Atrazine or Bladex[™]</u>. In addition, the two sections on Tank Mixtures for annual weeds in the MON-35085 label have been combined in the MON-35085 RT label.
- 7. Sections on <u>Postharvest Applications</u> and <u>Ecofarming Systems</u>, which have been approved for other glyphosate-containing products, have been included in this label.
- 8. In the <u>Aid to Tillage</u> section, the recommended surfactant rate has been changed from <u>0.5 to 1 percent</u> to <u>0.5 percent</u>, and more detailed instructions have been provided.
- 9. In the <u>Perennial Weeds</u> section, many of the weeds not found in the area of product use have been removed. The claim for <u>leafy spurge</u> has been changed from control to suppression, and the recommendations for <u>quackgrass</u> have been changed. A recommendation of 1 qt/A for the suppression of <u>Canada thistle</u> has been added.
- 10. The <u>Cropping Systems</u> section has been changed to include only those crops that are appropriate for the area of use.
- 11. The <u>Perennial Grass Suppression / Orchard Floors</u> sections has been modified to be more appropriate for the area of use.
- 12. The <u>Tree Crops</u> and <u>Vine Crops</u> sections have been modified to include those crops that are appropriate for the area of use.
- 13, A <u>Farm Ditches and Waterways</u> section has been added to the <u>Farmstead</u> <u>Weed Control</u> section.

Monsanto requests that the Agency approve this MON-35085 RT label text and brand name. Five (5) copies of the pamphlet and shuttle label containers are enclosed for your approval and stamping.

An Application for Pesticide Amendment and Certification with Respect to Citation of Data and General Offer to Pay are also enclosed.

If you have any questions regarding this request, please contact Dr. Kevin Cannon or me.

Sincerely,

phila a pohueto Sheila A. Schuette, Ph.D. Senior Registration Specialist (314) 694-7248

cc: R.P. Schneider K.F. Cannon Fred Groya I.C. O'Connor

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EPA Form #570-13 (3-75)

5. Date Signed

EPA Form 8570-1 (Rev. 4-88) Previous editions are obsolete.

February 22, 1991

Paperwork Reduction Act Notice and Instructions

Paperwork Reduction Act Notice

Public reporting burden for this collection of information is estimated to average of 0.85 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

Instructions

General

This form is to be used for all applications for new and amended registrations for pesticide products.

In order to process an application for new registration submitted on this form, the following material must accompany the application:

- Offer to Pay Statement (EPA Form 8570-27, -28, -29). (If not exempted by 40 CFR 162.9-1(b).)
- 2. Confidential Statement of Formula (EPA Form 8570-4).
- 3. Five copies of draft labeling.
- 4. Three copies of any data submitted.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8 1/2 x 11 inch baper or as a mockup of the proposed label. If prepared as a mockup it should be constructed in such a way as to facilitate storage in an 8 1/2 x 11 inch file. Mockup labels significantly smaller than 8 1/2 x 11 inches should be mounted on 8 1/2 x 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

Specific

Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Section I, III, and IV must be completed by the applicant. For applications submitted in connection with amended registration actions, Section I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

Section I - This Section must be completed for both Registration and Amended Registration actions.

- Company/Product Number Insert your company number, if one has been assigned. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If application is for an amendment, insert the registration number of the product.
- 2 Date Fill in the appropriate date.
- Product Manager If known, fill in the name and number of the Product Manager.
- Proposed Classification Specify the proposed classification for this product.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters.

An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.

6. Product Name - Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.

Amendment Information

Section II - This Section must be completed for all applications submitted in connection with Amended Registration.

 Subject of Amendment - Check the appropriate block, and provide a brief explanation of the purpose(s) for the amendment, such as: "the addition of a site, pest, or crop"; "to change inert ingredient"; "general label revisions of precantionary statements," etc.

Packaging and Container Information

Section III - This Section must be completed for all applications submitted in connection with New Registration.

- Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types. Indicate the size of the individual packets and number per retail container.
- Type of Retail Container Indicate type of container in which product will be marketed.
- Location of Net Contents Specify the not contents of all retail containers for your product.
- Size(s) of Retail Container Specify the net contents of all retail containers for your product.
- Location of Use Directions Indicate the location of the use directions for your product.
- Manner in which label is affixed to product Indicate the method product labeling is attached to retail container.

Contact Point

Section IV - This Section must be completed for all Registration and Amended Registration applications.

- 1-5. Sclf-explanatory.
- EPA Use Only.

Dyperdictions

FPA Form 8570-1 (Rev. 4-61) France to

CERTIFICATION WITH RESPECT TO CITATION OF DATA

	ile Symbol/Reg. No5	Date of Application February 22, 199
Name	of Product MON-3508	
Appli	cant's Name and Address	Monsanto Company
		Suite 1100
	·	700 14th Street, N.W.
		Washington, D.C. 20005
appli is su effect subst requi of a	cation. In addition, in apported by all data in this product of this product of antially similar, and the red to be submitted if product of identical or	apported by all data submitted or cited in the f cite-all options are indicated, this application the Agency's files that concern the properties or of any other product that is identical or that is one of the types of data that would be this application sought the initial registration similar composition and intended uses under the on the date of approval of this application.
regis	tration that is an ex-	th study cited in support of this application for clusive use study, I have obtained the written ata submitter to cite that study.
	I certify that, for eac tration that is <u>not</u> an	th study cited in support of this application for exclusive use study:
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:	cited to support those compensation for those 3(c)(2)(D) of the Federa (b) Commence negotiation compensation requirement	ing the companies who have submitted data I have se applications and have offered to: (a) Pay data in accordance with section 3(c)(1)(D) and al Insecticide, Fungicide and Rodenticide Act; and ons to determine which data are subject to the sof FIFRA and the amount and terms of compensation nies I have notified are: (Check one)
	for all active ing method or cite-all	listed on the Pesticide Data Submitters List redients contained in my product (Cite-all option under Selective Method). (Also sign to Pay Statement below).
	$[\chi]$ Monsanto Comparhave cited (Select	ny has submitted the studies which I ive Method).
Date	February 22, 1991	Signature Sheila a Schuett
1		Title Senior Registration Specialist
person	al Offer to Pay: I herns, with regard to the approximate to the approximate of the section of th	eby offer and agree to pay compensation to other proval of this application, to the extent required 3(c)(2)(D).
oate _	February 22, 1991	Signature Shulo a Schull
		Title Senior Registration Specialist 294

MON-35085® RT

By Monsanto Shuttle™ 100

For control of annual and perennial weeds in reduced tillage systems in Colorado, Idaho, Kansas*, Minnesota*, Montana, Nebraska*, North Dakota, Oregon*, South Dakota, Utah, Washington* and Wyoming.

AVOID CONTACT WITH FOLIAGE, GREEN STEMS, OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, SINCE SEVERE INJURY OR DESTRUCTION MAY RESULT.

EPA Reg. No. 524-445

Complete Directions for Use

Roundup@ is a registered trademark of Monsanto Company.

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For control of annual and perennial weeds in-reduced tillage systems in Colorado, Idaho, Kansas*, Minnesota*, Montana, Nebraska*, North Dakota, Oregon*, South Dakota, Utah, Washington*, and Wyoming.

*COUNTY RESTRICTIONS

This product can only be used in certain counties in Kansas, Minnesota, Nebraska, Oregon, and Washington. See the following sections for county use restrictions for these states.

In KANSAS and NEBRASKA, this product can be used in all counties EXCLUDING those listed below:

KANSAS

Allen
Anderson
Atchinson
Bourbon
Brown
Chase
Cherokee
Clay
Coffey
Crawford
Dickinson
Doniphan
Douglas
Franklin

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Under the Federal Insecticide,
Fungicide, and Redenticide Act,
as amended, for the penticide
registered under
EPA Reg. No. SAY HUS

Geary
Jackson
Jefferson
Johnson

Labette Leavenworth Linn Lyon Marion Marshall Miami Montgomery Morris Nemaha Neosho Osage Pottawatomie Riley Shawnee Wabaunsee Washington Wilson Woodson . Wyandotte

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NEBRASKA

Antelope Boone Burt Butler Cass Cedar Clay Colfax Cuming Dakota Dixon Dodge Douglas Fillmore G**a**ge **Hamilton** Jefferson Johnson , Knox : Lancaster Madison

Merrick Nance Nemaha Nuckolls Otoe Pawnee Pierce Platte

Polk
Richardson
Saline
Sarpy
Saunders
Seward
Stanton
Thayer
Thurston
Washington
Wayne
York

In HINNESOTA, OREGON and WASHINGTON, this product can be used ONLY in those counties listed below:

HINNESOTA

Becker Beltrami Clay Clearwater Douglas Grant Hubbard Kittson Lake of the Woods Mahnomen Marshall Norman Ottertail Pennington Polk Red Lake Roseau Wadena

OREGON

Baker
Crook
Deschutes
G#11iam
G#ant
Hood River
Jefferson
Morrow
Sherman
Umatilla
Union
Wallowa
Wasco
Wheeler

Wilkin

WASHINGTON

Adams

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Asotin Benton Chelan Columbia Douglas Ferry Franklin Garfield Grant Kittitus Klickitat Lincoln Okanagan Pend Oreille Spokane Stevens Walla Walla Whitman Yakima

Read the entire label before using this product.

Use only according to label instructions.

Read "LIMIT OF WARRANTY AND LIABILITY" before buying or using. If terms are not acceptable, return at once unopened.

REFORMULATION IS PROHIBITED. SEE INDIVIDUAL CONTAINER LABEL FOR REPACKAGING LIMITATIONS.

LIMIT OF WARRANTY AND LIABILITY

This Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the Complete Directions for Use label booklet ("Directions") when used in accordance with those Directions under the conditions described therein. NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Bayer and all users shall promptly notify this Company of any claims whether based in contract, negligence, strict liability, other tort or otherwise.

Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this Company, including, but not limited to, incompatibility with products other than those set forth in the Directions, application to or contact with desirable vegetation, unusual weather, weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions,

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or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation.

THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF THE LIABILITY OF THIS COMPANY OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED, OR, AT THE ELECTION OF THIS COMPANY OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH QUANTITY, OR, IF NOT ACQUIRED BY PURCHASE, REPLACEMENT OF SUCH QUANTITY. IN NO EVENT SHALL THIS COMPANY OR ANY OTHER SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES.

Buyer and all users are deemed to have accepted the terms of this LIMIT OF WARRANTY AND LIABILITY which may not be varied by any verbal or written agreement.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Keep out of reach of children.

WARNING!

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CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY. HARMFUL IF INHALED.

Do not get in eyes or breathe spray mist or get in or on clothing.

Wear goggles, face shield or safety glasses.

Wash thoroughly with soap and water after handling.

Remove contaminated clothing and wash before reuse.

FIRST AID: IF IN EYES, hold eyelids open and flush with plenty of water. Get medical attention.

IF INHALED, remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF SWALLOWED, drink promptly a large quantity of milk, egg whites, or gelatin solution. If these are not available drink large quantities of water. Get medical attention.

In case of emergency involving this product, Call Collect, day or night, (314) 694-4000.

Environmental Hazards

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Do not apply directly to water or wetland (swamps, bogs, marshes or potholes). Do not contaminate water when disposing of equipment washwaters.

Physical or Chemical Hazards

Spray solutions of this product should be mixed, stored and applied only in using only stainless steel, aluminum, fiberglass, plastic and or plastic-lined steel containers.

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

ACTIVE INGREDIENT:

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* Contains 480 grams per litre or 4 pounds per U.S. gallon of the active ingredient glyphosate, in the form of its isopropylamine salt. Equivalent to 356 grams per litre or 3 pounds per U.S. gallon of the acid, glyphosate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

Storage and Disposal

Do not contaminate water, foodstuffs, seed or feed or seed by storage or disposal.

DISPOSAL:

Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

Do not reuse container. Return emptied container per the Monsanto container return program. If not returned, triple rinse container,

then puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

GENERAL INFORMATION

DO NOT APPLY THIS PRODUCT USING AERIAL SPRAY EQUIPMENT EXCEPT UNDER CONDITIONS AS SPECIFIED WITHIN THIS LABEL.

This product, a water soluble liquid, mixes readily with water to be applied as a foliar spray for the control or destruction of most herbaceous plants. It may be applied through most standard industrial or field-type sprayers after dilution and thorough mixing with water in accordance with label instructions.

This product moves through the plant from the point of foliage contact to and into the root system. Visible effects on most annual weeds occur within 2 to 4 days but on most perennial weeds may not occur for 7 days or more. Extremely cool or cloudy weather following treatment may slow down activity of this product and delay visual effects of control. Visible effects are a gradual wilting and yellowing of the plant which advances to complete browning of aboveground growth and deterioration of underground plant parts.

Unless otherwise specified on this label, delay application until vegetation has emerged and reached the stages described for control of such vegetation under the "WEEDS CONTROLLED" section of this label. Unemerged plants arising from unattached underground rhizomes or root stocks of perennials will not be affected by the spray herbicide and will continue to grow. For this reason, best control of most perennial weeds is obtained when treatment is made at late growth stages approaching maturity.

Always use the higher rate of this product per acre within the recommended range when (1) weed growth is heavy or dense, or (2) weeds are growing in an undisturbed (noncultivated) area.

Do not treat weeds under poor growing conditions such as drought stress, disease or insect damage, as reduced weed control may result. Reduced results control may also occur when treating weeds heavily covered with dust.

This product is recommended for control of emerged weeds prior to establishment of labeled crops. Large amounts of green or decaying vegetation left standing or incorporated into the seedbed may enhance the development of disease in newly planted crops. This may result in poor emergence and/or stands, especially under cool and/or wet conditions.

Spraying early to control young weeds before dense stands develop or light cultivation to assist weed decay will favor preparation of suitable seedbeds.

In reduced tillage and no-till systems, ensure good seed to soil contact and proper seeding depth.

Reduced control may result when applications are made to annual or perennial weeds that have been mowed, grazed, or cut, and have not been allowed to regrow to the recommended stage for treatment.

Rainfall or irrigation occurring within 6 hours after application may reduce effectiveness. Heavy rainfall or irrigation within 2 hours after application may wash the chemical off the foliage and a repeat treatment may be required.

This product does not provide residual weed control. For subsequent residual weed control, follow a label-approved herbicide program. Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used.

Buyer and all users are responsible for all loss or damage in connection with the use or handling of mixtures of this product with herbicides or other materials that are not expressly recommended in this labeling. Mixing this product with herbicides or other materials not recommended on this label may result in reduced performance.

For best results, spray coverage should be uniform and complete. 'Do not spray weed foliage to the point of runoff.

Keep people and pets off treated areas until spray solution has dried to prevent transfer of this product onto desirable vegetation.

ATTENTION: AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS.

Do not allow the herbicide solution to mist, drip, drift, or splash onto desirable vegetation since minute quantities of this herbicide can cause severe damage or destruction to the crop, plants, or other areas on which treatment was not intended. The likelihood of injury occurring from the use of this product is greatest when winds are gusty or in excess of 5 miles per hour or when other conditions, including lesser wind velocities, will allow spray drift to occur. When spraying, avoid combinations of pressure and nozzle type that will result in splatter or fine particles (mist) which are likely to drift. AVOID APPLYING AT EXCESSIVE SPEED OR PRESSURE.

NOTE: Use of this product in any manner not consistent with this index label may result in injury to persons, animals, crops, or other unintended consequences. Keep container closed to prevent spills and contamination.

MIXING, ADDITIVES AND APPLICATION INSTRUCTIONS

APPLY THESE SPRAY SOLUTIONS IN PROPERLY MAINTAINED AND CALIBRATED EQUIPMENT CAPABLE OF DELIVERING DESIRED VOLUMES. DO NOT APPLY UNDER WHEN WIND OR OTHER CONDITIONS WHICH ALLOW FAVOR DRIFT TO OCCUR. HAND GUN APPLICATIONS SHOULD BE PROPERLY DIRECTED TO AVOID SPRAYING DESIRABLE PLANTS. NOTE: REDUCED RESULTS MAY OCCUR IF WATER

CONTAINING SOIL IS USED, such as SUCH AS WATER FROM PONDS AND UNLINED DITCHES.

MIXING

This product mixes readily with water. Mix spray solutions of this product as follows: Fill the mixing or spray tank with the required amount of water. Add the proper recommended amount of this product (see "DIRECTIONS FOR USE" and "WEEDS CONTROLLED" sections of this label) near the end of the filling process and mix well. Remove hose from tank immediately after filling to avoid siphoning back into the carrier source. During mixing and application, foaming of the spray solution may occur. To prevent or minimize foam, avoid the use of mechanical agitators, place the filling hose below the surface of the spray solution, terminate by-pass and return lines at the bottom of the tank and, if needed, use an approved antifoam or defoaming agent.

TANK MIXTURES

Always predetermine the compatibility of labeled tank mixtures of this herbicide with water carrier by mixing small proportional quantities in advance.

Mix labeled tank mixtures of this product with water as follows:

- Place a 20 to 35 mesh screen or wetting basket over filling port.
- Through the screen, fill the sprayer tank one-half full with water and start agitation.
- 3. If a wettable powder is used, make a slurry with the water carrier, and add it SLOWLY through the screen into the tank. Continue agitation.
- 4. If a flowable formulation is used, premix one part flowable with one part water. Add diluted mixture SLOWLY through the screen into the tank. Continue agitation.
- 5. If an emulsifiable concentrate formulation is used, premix one part emulsifiable concentrate with two parts water. Add diluted mixture slowly through the screen into the tank. Continue agitation.
- 6. Continue filling the sprayer tank with water and and the required amount of this product near the end of the filling process.
- 7. Where nonionic surfactant is recommended, add this to the spray tank before completing the filling process.
- 8. Add individual formulations to the spray tank as follows: wettable powder, flowable, emulsifiable concentrate drift control additive, water soluble liquid followed by surfactant.

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Maintain good agitation at all times until the contents of the tank are sprayed. If the spray mixture is allowed to settle, thorough agitation is required to resuspend the mixture before spraying is resumed.

Keep by-pass line on or near bottom of tank to minimize foaming. Screen size in nozzle or line strainers should be no finer than 50 mesh. Carefully select proper nozzle to avoid spraying a fine mist. For best results with conventional ground application equipment, use flat fan nozzles.

Clean sprayer and parts immediately after using this product by thoroughly flushing with water.

ADDITIVES

SURFACTANTS

Nonionic surfactants which have at least 80 70 percent active ingredient and are labeled for use with herbicides may be used. Do not reduce rates of this herbicide when adding surfactant. When adding additional surfactant or when label instructions require the use of additional surfactant, use 0.5 percent surfactant concentration (2 guarts per 100 gallons of spray solution). Read and carefully observe surfactant cautionary statements and other information appearing on the surfactant label.

AMMONIUM SULFATE

The addition of 1 to 2 percent dry ammonium sulfate by weight (or liquid equivalent), may increase the performance of Roundup RT herbicide this product in tank mixtures on annual weeds. Add 8.5 to 17 pounds of dry ammonium sulfate per 100 gallons of spray the sulfate with Roundum RT when treating land rate of ammonium of annual weeds. Low-quality ammonium sulfate may contain material that will not readily dissolve which could result in nozzle-tip plugging. To determine quality, perform a jar test by adding 1/3 cup of ammonium sulfate to 1 gallon of water and agitate for 1 minute. If undissolved sediment is observed, predissolve the dry additive in water and filter prior to addition to the spray tank. If ammonium sulfate is added directly to the spray tank, add slowly with agitation. Adding too quickly may clog outlet lines. Ensure that ammonium sulfate is completely dissolved in the spray tank before adding herbicides. Thoroughly rinse the spray system with clean water after use to reduce corrosion. Observe all precautionary statements on the ammonium sulfate product labels.

NOTE: The use of ammonium sulfate as an additive does not preclude the need for additional surfactant. Do not use herbicide rates lower than recommended in this label.

"Banvel is a tradmark of Sandoz, Inc.

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APPLICATION EQUIPMENT AND TECHNIQUES

Do not apply this product through any type of irrigation system.

This product may be applied using either aerial, conventional ground or hooded spray equipment. Use extreme care to avoid misting or drifting of herbicide solution onto foliage, green stems or fruit of desirable crops, trees, or plants during both growing and dormant periods, since even very small quantities of spray can cause severe plant injury.

GROUND APPLICATION: Apply recommended rates of this product in 3 to 10 gallons of water per acre as a broadcast spray. For optimum spray distribution and coverage, use flat fan or low-volume nozzles. When using flood nozzles, space them no more than 40 inches apart and ensure double overlap of spray pattern. Refer to the manufacturer's recommendations for correct pressure and nozzle height above the target canopy. Avoid pressure and nozzles which produce fine droplets or mist.

Use appropriate marking devices to ensure uniform spray coverage and best results from the herbicide.

AERIAL APPLICATION: Apply the recommended rates of this product in 3 to 5 gallons of water per acre as a broadcast spray. DO NOT APPLY DURING INVERSION CONDITIONS, WHEN WINDS ARE GUSTY, OR UNDER ANY OTHER CONDITION WHICH WILL ALLOW FAVORS DRIFT. DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT WAS NOT INTENDED. TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.

Coarse sprays are less likely to drift; therefore, do not use nozzles or nozzle configurations which dispense spray as fine spray droplets. Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure.

SPRAYER CLEANUP

CLEAN THE ENTIRE SPRAYER AFTER APPLICATION OF THIS PRODUCT. Failure to clean the sprayer thoroughly may result in injury to desirable crops which are subsequently sprayed. First, add clean water to the tank and thoroughly rinse the entire sprayer system. Secondly, fill the tank with water and ammonia. Add 1 quart of household ammonia per 25 gallons of water. Pump enough solution through the hoses, boom and nozzles to fill these parts completley. Then fill the tank, close and leave for 24 hours before draining and rinsing 'thoroughly with water.

Application or use of other agricultural chemicals with the equipment used for this product may result in injury to desirable vegetation.

Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove residues of this product accumulated during spraying or from spills. PROLONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES MAY RESULT IN CORROSION AND POSSIBLE

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FAILURE OF THE PART. LANDING GEAR ARE MOST SUSCEPTIBLE. The maintenance of an organic coating (paint) which meets aerospace specification MIL-C-38413 may prevent corrosion.

WEEDS CONTROLLED

This herbicide controls many annual and perennial grasses and broadleaf weeds.

ANNUAL WEEDS

- Add: a nonionic surfactant at a rate of 0.5 percent by total: spray volume.
- Apply to actively growing grass and broadleaf weeds.
- Allow at least 3 days after treatment before tillage.
- For maximum agronomic benefit, apply when weeds are 6 inches or less in height.
- To prevent seed production, applications should be made prior to seedhead formation.
- This product does not provide residual control; therefore, delay application until maximum weed emergence. Repeat treatments may be necessary to control later germinating weeds.
- Do not use these rates for weeds that have been mowed, grazed or cut, unless weed regrowth has occurred and weeds are vigorously growing.
- Refer to the "TANK MIXTURES" portion of this section for control of additional broadleaf weeds.

RECOMMENDED RATES AND WEEDS CONTROLLED

ANNUAL WEED SPECIES	MAXIMUM HEIGHT/ GROWTH STAGE	RATE PER ACRE** (FLUID OUNCES)
Foxtail , Setaria spp.	12".	8 oz.
Barnyardgrass Echinochloa crus-galli	6"	12 oz.
Bluegrass, annual Poa annua		

Brome, downy*

Bromus tectorum

Chickweed, jagged
Holosteum umbellatum

Mustard, blue Chorispora tenella

Mustard, tansy
Descurainia pinnata

Mustard, tumble
Sisymbrium altissimum

Mustard, wild Sinapis arvensis

Hordeum vulgare

12"

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12 oz.

Rye

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Barley

Secale cereale

Sandbur, field Cenchrus spp.

Shattercane Sorghum bicolor

Stinkgrass

Eragrostis cilianensis

Wheat Triticum aestivum	18 ^H	12 oz.
Morningglory Ipomea spp.	3"	16 oz.
Bluegrass, bulbous Poa bulbosa	6"	16 oz.

Cheat

Bromus secalinus

Chickweed, mouseear Cerastium vulgatum

Corn, volunteer Zea mays

Groundsel, common Senecio vulgaris

Goatgrass, jointed
Aegilops cylindrica

Horseweed/Marestail Conyza canadensis

Paranco start

Pennycress, field; Fanweed Thlaspi arvense

Rocket, London
Sisymbrium irio

Ryegrass, Italian
Lolium multiflorum

Shepherdspurse Capsella bursa-pastoris

Bpurge, annual Euphorbia spp.

Buttercup Ranunculus spp.

12"

16 oz.

Cocklebur Xanthium strumarium

Crabgrass
Digitaria spp.

Dwarfdandelion Krigia cespitosa

Falseflax, smallseed Camelina microcarpa

Foxtail, Carolina
- Alopercurus carolinianus

Johnsongrass, seedling Sorghum halepense

Lambsquarters, common Chenopodium album

Oats, wild Avena fatua

Panicum, fall
/Panicum dichotomiflorum

Panicum, Texas
Panicum texanum

Pigweed, redroot
Amaranthus retroflexus

Pigweed, smooth Amaranthus hybridus

Witchgrass
Panicum capillare

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Signalgrass, broadleaf - Brachiaria platyphylla	6.4	
Peaweed	•	
<u>Sida apinosa</u>	3.4	
Sveningprimrose, cutlcaf		
- Oenothera laciniate	12"	- 32 oz.
cranium, Carolina		
-Geranium carolianianum		
Cleusine indica		-
ısley, Florida Richardia scabra	12"	32 oz.
icklepod Cassia obtusifolia		
ealbeandeinag		•
Bidens bipinnata		
'ilaree		
Erodium spp.	12"	48 oz.

- * For control in no-till systems, use 16 fluid ounces per acre.
- ** For those rates less than 32 fluid ounces per acre, this product at rates up to 32 fluid ounces per acre may be used where heavy weed densities exist.

FALLOW AND REDUCED TILLAGE SYSTEMS

Use this product in fallow and reduced tillage systems for control of annual weeds prior to emergence of crops listed in this label. Refer to the "WEEDS CONTROLLED" section of this label for specific rates and instructions. This product may be applied using ground of aerial spray equipment. See the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label for instructions.

TANK MIXTURES

MON-35085 RT plus BANVEL plus NONIONIC SURFACTANT

MON-35085 RT plus 2,4-D plus NONIONIC SURFACTANT

MON-35085 RT plus ATRAZINE or BLADEX™ plus NONIONIC SURFACTANT The addition of Banvel in a mixture with this product may provide short-term residual control of selected weed species. Some crop injury may occur in Banvel is applied within 45 days of planting. Refer to the Banvel and 2,4-D labels for cropping restrictions and other use instructions.

These recommended tank mixtures may be applied using ground or aerial spray equipment. Refer to the "WEEDS CONTROLLED" section of this label for specific rates and instructions.

This product plus Banvel or 2,4-D will control the annual grasses and broadleaf weeds previously listed for this product alone at the indicated heights (except 8 fluid ounces per acre applications), plus the following broadleaf weeds. For those weeds previously listed at 8 fluid ounces of this product alone per acre, use the 12 fluid ounces rate in these tank mixtures.

NOTE: Refer to the specific product labels for crop rotation restrictions and cautionary statements of all products used in tank mixtures. Some crop injury may occur if Banvel is applied within 45 days of planting. The addition of Banvel in a mixture with this product may provide short-term residual control of selected weed species.

Apply 12 to 16 fluid ounces of this product plus 0.25 pound a.i. of Banvel, or 0.5 pound a.ei. of 2,4-D plus 0.5 to 1 percent nonionic surfactant by total spray volume per acre to control dense populations of the following annual broadleaf weeds when less than 6 inches in height:

Kochia*

Kochia scoparia

Lambsquarters
Chenopodium album

Lettuce, prickly
Lactuca serriola

Pigweed, Redroot
Amaranthus retroflexus

Thistle, Russian Salsola kali

*Controlled with Banvel tank mixture only.

This product plus atrazine or Bladex plus nonionic surfactant tank is mixture provides postemergence control of listed annual weeds in fallow and reduced tillage systems. In addition, this tank mixture will provide soil residual control of weeds listed on the atrazine and Bladex label.

For use only in Colorado, Kansas, Nebraska, Oklahoma, Oregon, South Dakota, and Washington.

ANNUAL WEEDS CONTROLLED

Barnyardgrass
Echinochloa crus-qalli

Brome, downy
Bromus tectorum

Foxtail, green
Setaria viridis

Kochia*
Kochia scoparia

Lambsquarters Chenopodium album

Lettuce, prickly
Lactuca serriola

Mustard, tansy
Descurainia pinnata

Pigweed
Amaranthus spp.

Sandbur, field Cenchrus spp.

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Stinkgrass Eragrostis cilianensis

Thistle, Russian Salsola kali

wneat Triticium aestivum

Witchgrass
Panicum capillare

Apply 12 fluid ounces of this product with 1 pound or less of the active ingredient atrazine per acre or 16 fluid ounces of this product with 2 pounds or less of the active ingredient atrazine per acre, or 20 fluid ounces of this product with 1 to 3 pounds of the active ingredient atrazine per acre, plus 0.5 to 1 percent achienic r surfactant by total spray volume. Apply 16 fluid ounces of this product with 2.4 to 4 pounds of the active ingredient cyanazine in #Bladex per acre plus 0.5 to 1 percent nonionic surfactant. Barnyardgrass will be suppressed at the 20 fluid ounces per acre rate and will require up to 26 fluid ounces per acre for concrol. In Oregon and Washington, do not exceed 1 pound of the active ingredient atrazine per acre. The addition of 2 percent dry ammonium sulfate by weight (or liquid equivalent) or 17 pounds per 100 gallons of water is recommended to increase the performance of this product plus atrazine or Bladex plus nonionic surfactant tank mixtures.

Consult the atrazine or Bladex labels (90 DF, 4L, 80W) for use rates, soil type, planting, cropping and other restrictions, as

welkl as other precautionary statements and use according to the most restrictive label.

These tank mixtures may be applied with ground or aerial equipment. See the "APPLICATION EQUIPMENT AND TECHNIQUES" section for instructions.

For ground application, apply in 3 to 10 gallons of water per acre.

For aerial application, apply 3 to 5 gallons of water per acre.

™Bladex is a trademark of E. I. duPont de Nemours and Company.

POSTHARVEST APPLICATIONS

This product will provide control of existing weeds following grain harvest. Weeds should be allowed to regrow after damage incurred during harvest operations, and to recover from environmental stress, before application of this product. Weeds should be treated prior to the heading stage of annual grasses, if possible, and before broadleaf weeds exceed 24 inches in height. Nonionic surfactant should be added at 0.5 to 1 percent by total spray volume. Use of ammonium sulfate is recommended and may improve performance on annual weeds.

Apply 12 <u>fluid</u> ounces of this product per acre plus nonionic surfactant to control downy brome, green foxtail, stinkgrass and volunteer wheat.

To control kochia, lambsquarters, mustard, pigweed and Russian thistle, apply 16 fluid ounces of this product plus 0.25 pounds a.i. of Banvel or 0.5 pounds a.e 1. of 2,4-D plus nonionic surfactant per acre.

Apply 20 fluid ounces of this product per acre plus nonionic surfactant to control barnyardgrass, sandbur, sunflower, and witchgrass. The Aaddition of 0.25 pound a.i. of Banvel or 0.5 pound a.ei. of 2,4-D plus nonionic surfactant to 20 fluid ounces of this product will control prickly lettuce.

ECOFARMING SYSTEMS

The Ecofarming System consists of the following rotation: winter wheat, corn/sorghum, ecofallow.

Use the following tank mixtures for control of emerged annual weeds before planting corn or sorghum in the Ecofarming System.

MON-35085 RT at 16 to 20 fluid ounces pere acre plus
2,4-D at 0.375 to 0.5 pound a.i. per acre plus
ATRAZINE at 0.75 to 1 pound a.i. per acre plus
LASSO® at 2.5 to 3 quarts per acre

Add a nonionic surfactant at 0.5 percent by total spray volume.

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The above tank mixture should be applied in 28-0-0 or 32-0-0 liquid fertilizer carrier at 20 to 30 gallons per acre. The liquid fertilizer may be diluted with water to achieve the proper carrier volume.

WEEDS CONTROLLED - The following weeds, up to a maximum height of 4 inches, will be controlled: up to a maximum height of 4 inches.

Brome, downy
Bromus tectorum

Cheat

Bromus secalinus

Foxtail, green Setaria viridis

Foxtail, yellow Setaria lutescens

Kochia*

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Kochia scoparía

Lettuce, prickly
Lactuca serriola

Pigweed, redroot
Amaranthus retroflexus

Thistle, Russian Salsola kali

Wheat, volunteer Triticum aestivum

*For improved control of kochia, add 4 fluid ounces per acre (0.125 pound a.i. per acre) of Banvel to the above tank mixture.

Risk of crop injury from 2,4-D or Banvel can be reduced by applying this treatment 7 to 14 days before planting.

Refer to the Lasso label booklet for Lasso herbicide for preemergence weed control achieved by this tank mixture.

Refer to the specific product labels for crop rotation restrictions and cautionary statements for all products used in these tank imixtures.

*BLasso is a registered trademark of Monsanto Company.

AID TO TILLAGE

This product used in conjunction with preplant and conventional fallow tillage practices will provide control of downy brome, volunteer wheat, tansy mustard and foxtail.

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Apply 8 fluid ounces per acre $\frac{(1/2 \text{ pint})}{\text{to}-1}$ of this product plus 0.5 to-1 percent nonionic surfactant by total spray volume as a broadcast spray in 3 to 10 gallons of water per acre.

For ground application, apply in 3 to 10 gallons of water per acre. For aerial applications, apply in 3 to 5 gallons of water per acre. Do not mix with residual herbicides.

Application of this product should be made when weeds are actively growing and before weeds are greater than 6 inches tall. Application must be followed by conventional tillage practices before regrowth of the treated plants occurs. Allow at least one day after application before tillage. Tillage must occur no later than 15 days following application.

This product does not provide residual weed control. Repeat treatments may be necessary to control subsequent germinating weeds.

Do not treat weeds under poor growing conditions such as drought stress, or disease or insect damage as reduced weed control may result. Reduced results also may occur when treating weeds heavily covered with dust, or when straw canopy covers the weeds.

PERENNIAL WEEDS

Apply this product as follows to control or destroy most perennial weeds:

NOTE: If weeds have been moved or tilled, do not treat until plants have resumed active growth and are at have reached the recommended stages of growth. Repeat treatments may be necessary to control weeds regenerating from underground parts or seed. Repeat treatments must be made prior to crop emergence.

The addition of 1 to 2 percent dry ammonium sulfate by weight or 8.5 to 17 pounds per 100 gallons of water may increase the performance of this herbicide on perennial weeds. The improvement in performance may be apparent where environmental stress is a concern. Refer to the "Mixing, Additives and Application Instructions" section of this label.

When applied as recommended under the conditions described, this product will CONTROL the following perennial weeds:

,Alfalfa

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Medicago sativa

Johnsongrass
Sorghum halepense

Nightshade, silverleaf Solanum elaeagnifolium

Quackgrass Agropyron repens

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Ryegrass, perennial Lolium perenne

Spurge, leafy: Euphorbia esula

Thistle, Canada Cirsium arvense

*Partial Control

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Johnsongrass/Ryegrass, perennial—Apply 1 to 3 quarts of this product per acre. In annual cropping systems, apply 1 to 2 quarts of this product per acre. Apply 1 quart of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 5 to 10 gallons of water per acre. Use 2 quarts of this product when applying 10 to 40 gallons of water per acre. In noncrop or areas where annual tillage (no-till), is not performed, apply 2 to 3 quarts of this product in 10 to 40 gallons of water per acre. For best results, apply to actively growing plants when most have reached the boot-to-head stage of growth. Allow 7 or more days after application before tillage. Do not tank-mix with residual herbicides when using the 1 quart per acre rate. See "DIRECTIONS FOR USE" and "MIXING, ADDITIVES AND APPLICATION INSTRUCTIONS" sections of this label for labeled uses and specific application instructions.

For burndown of contacted vegetation, apply 1 pint per acre plus 0.5 to 1 percent nonionic surfactant in 5 to 10 gallons of water per acre before the plants reach a height of 12 inches. For this use, allow at least 3 days after treatment before tillage.

Quackgrass-In Annual Cropping Systems, or in Pastures and Sods Followed by Deep Tillage: Apply 1 to 2 quarts of this product per acre. For the one quart rate, apply 0.5 to 10 gallons of water per acre. For the 2 quart rate, apply in 10 to 40 gallons of water per acre. Do not tank-mix with residual herbicides when using the 1 quart rate. Spray when quackgrass is 8 6 to 12 8 inches high talk and actively growing. Do not till between harvest and fall applications or in the fall or spring prior to spring application. Allow 3 or more days after application before tillage. In pastures of sods, for best results, use a moldboard plow.

Quackgrass-Pasture or Sod or Other Noncrop Areas Where Deep Tillage is Not Planned Following Application: Apply 2 to 3 quarts in 10 to 40 gallons of water per acre. Spray when the quackgrass is greater than 8 inches tall and actively growing. Do not till between tharvest and fall application or in the fall or spring prior to spring application. Allow 3 or more days after application before itillage.

See "DIRECTIONS FOR USE" and "MIXING, ADDITIVES and APPLICATIONS INSTRUCTIONS"—sections of this pamphlet for labeled uses and specific application instructions.

Spurge, leafy-For control suppression, apply 16 fluid ounces of this product plus 16 ounces of 2,4-D (0.5 pound a.i. of 2,4-D per

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acret plus 0.5 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre in the late summer or fall. Apply when plants are actively growing. If mowing has occurred prior to treatment, apply when most of the plants are 12 inches tall. Allow 7 or more days after application before tillage.

Thistle, Canada-Apply 2 to 3 quarts of this product per acre. Apply to actively growing thistles when most are at or beyond the bud stage of growth. After harvest, mowing or tillage in the late summer or fall, allow at least 4 weeks for initiation of active growth and rosette development prior to the application of this product. Fall treatments must be applied before a killing frost. Allow 3 or more days after application before tillage. See "DIRECTIONS FOR USE" and "MIXING, ADDITIVES and APPLICATION INSTRUCTIONS"— sections of this pamphlet for labeled uses and specific application instructions.

For suppression of Canada thistle, apply 1 quart per acre of this product plus 0.5 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre in the late summer or fall after harvest, mowing or tillage. Allow rosette regrowth to a minimum of 6 inches in diameter before treating. Applications can be made as long as leaves are still green and plants are actively growing at the time of application. Allow 3 or more days after application before tillage.

Other perennials listed on this label-Apply 3 to 5 quarts of this product per acre. Apply when actively growing and when most have reached early head or early bud stage of growth. Allow 7 or more days after application before tillage.

See "DIRECTIONS FOR USE" and "MIXING, ADDITIVES, AND APPLICATION INSTRUCTIONS" sections of this pamphlet for labeled uses and specific application instructions.

TANK MIXTURES

When applied as directed under the conditions described, this product plus Banvel or 2,4-D will SUPPRESS or CONTROL the following perennial broadleaf weed:

Bindweed, field Convolvulus arvensis

For suppression, apply 16 fluid ounces of this product plus 0.5 lb a.ei. of 2,4-D or 0.25 lb a.i. of Banvel, plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gzllons of water per acre for ground applications and 3 to 5 gallons of water per acre for aerial applications. Applications should be delayed until maximum emergence has occurred and when vines are between 6 to 18 inches in length. These tank mixtures may be applied using aerial application equipment in fallow and reduced tillage systems only.

For control, apply 2 quarts of this product plus 0.5 pound a.i. of Banvel in 3 to 20 gallons of water per acre. At these rates, apply using ground application equipment only.

CROPPING SYSTEMS

This product controls annual and perennial weeds listed on this label, prior to the emergence of the crops listed below.

See "GENERAL INFORMATION" and "APPLICATION EQUIPMENT AND TECHNIQUES" sections of this label for essential product performance information.

Repeat treatments may be necessary to control weeds regenerating from underground parts or seed. Except as otherwise specified on this label, repeat treatments must be made before the crop emerges, in accordance with the instructions of this label.

Except as otherwise specified in a crop section of this label, the combined total of all treatments must not exceed 8 quarts per acre of this product per year.

Do not plant subsequent crops other than those on this label for one year 30 days following application.

For other cropping systems, except following spot treatment in forage grasses and legumes, d Do not harvest or feed treated crops vegetation for 8 weeks after following application. Allow 14 days following spot treatment or selective equipment use allow 14 days before grazing domestic livestock or harvesting forage grasses and legumes.

This product controls annual and perennial weeds listed on this label, prior to the emergence of these crops.

BARLEY* BEANS (All) BEETS (Red, Sugar) CARROT CORN (All)* COTTON* FORAGE GRASSES* FORAGE LEGUMES* LENTILS OATS* ONION PEAS (All) ,POTATO (Irish, sweet) RADISH SORGHUM (Milo) 🕏 SOYBEANS* WHEAT*

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*Spot treatments may be applied in these crops.

Spot Treatment (Only those crops with "*" can be spot treated)-Applications in growing crops must be made prior to

heading of small grains and milo, initial pod set in soybeans, silking of corn, boll opening on cotton.

For forage grasses and forage legumes see "Spot Treatment" in the "Pastures" section of "Cropping Systems" in this label.

For dilution and rates of application using boom or hand-held equipment, see "Mixing, Additives and Application Instructions" and "Weeds Controlled" sections of this label.

NOTE: FOR FORAGE GRASSES AND FORAGE LEGUMES, NO MORE THAN ONE-TENTH OF ANY ACRE SHOULD BE TREATED AT ONE TIME. FOR ALL OTHER CROPS, DO NOT TREAT MORE THAN 10 PERCENT OF THE TOTAL FIELD AREA TO BE HARVESTED.

THE CROP RECEIVING SPRAY IN TREATED AREA WILL BE KILLED. TAKE CARE TO AVOID DRIFT OR SPRAY OUTSIDE TARGET AREA FOR THE SAME REASON.

Selective Equipment-This product may be applied through recirculating sprayers, shielded applicators, or wiper applicators in cotton and soybeans. Shielded and wiper applicators may also be used in tree crops and grapes. Wiper applicators may be used in rutabagas, forage grasses and forage legumes, including pasture sites and sorghum milo.

See the "Selective Equipment" part of the "Application Equipment and Techniques" section of this label for information on proper use and calibration of this equipment.

Allow at least the following time intervals between application and harvest:

Apples, Avocado, Cherry, Grapes, Pear14 days Sorghum (milo) *40 days

* Do not use roller applicators. Do not feed or graze treated milo fodder. Do not ensile treated vegetation.

ASPARAGUS

When applied as directed for "Cropping Systems" under the conditions described, this product controls weeds listed on this label in asparagus.

For specific rates of applications and instructions for control of various annual and perennial weeds, see the "Weeds Controlled" section of this label.

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Prior to Crop Emergence—Apply this product prior to crop emergence for the control of emerged labeled annual and perennial weeds. DO NOT APPLY WITHIN A WEEK BEFORE THE FIRST SPEARS EMERGE.

Spot Treatment-Apply this product immediately after cutting, but prior to the emergence of new spears. Do not treat more than 10 percent of the total field area to be harvested. Do not harvest within 5 days of treatment.

Postharvest—Apply this product after the last harvest and all spears have been removed. If spears are allowed to regrow, delay application until ferns have developed. Delayed treatments should be applied as directed or shielded spray in order to avoid contact of the spray with ferns, stems or spears. Direct contact of the spray with the asparagus may result in serious crop injury.

NOTE: Select and use recommended types of spray equipment for postemergence postharvest applications. A directed spray is any application where the spray pattern is aligned in such a way as to avoid direct contact of the spray with the crop. A shielded spray is any application where a physical barrier is positioned and maintained between the spray and the crop to prevent contact of spray with the crop.

TREE AND VINE CROPS

For -use only-in-Idaho, Utah and Washington.

This product-is recommended for weed-control in established groves, vineyards, or orchards, or for site preparation prior to transplanting crops listed in this section. Applications may be made with boom equipment, CDA, shielded sprayers, hand held and high-volume wands, lances, or orchard guns, or with wiper applicator equipment, except as directed in this section. See the "Application Equipment and Techniques" section of this label for specific information on use of equipment.

When applying Roundup RT alone, refer to the "Weeds Controlled" section of this label for recommended rates to be used.

NOTE

Répeat treatments may be necessary to control weeds originating from underground parts of untreated weeds or from seeds. This product does not provide residual weed control. For subsequent weed control, follow a program using residual herbicides or use repeated applications of this product. Do not apply more than 10.6 quarts of this product per acre per year.

EXTREME GARE MUST BE EXERCISED TO AVOID CONTACT OF HEIBICIDE SOLUTION, SPRAY, DRIFT, OR MIST WITH FOLIAGE OR GREEN BACK OF TRUNK, BRANCHES, SUCKERS, FRUIT, OR OTHER PARTS OF TREES OR VINES. CONTACT OF THIS PRODUCT WITH OTHER THAN MATURED BROWN BARK CAN RESULT IN SERIOUS CROP DAMAGE.

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AVOID - PAINTING OUT STUMPS WITH - THIS - PRODUCT - AS - INJURY RESULTING FROM ROOT GRAFTING MAY OCCUR-IN ADJACENT TREES.

Reduced centrol may result when applications are made to annual or perennial-weeds-that have-been mowed, grazed or cut-and have not been allowed to regrow to the recommended stage for treatment.

For specific rates of applications and instructions, see the "Weeds Controlled" section of this label.

TANK MIXTURES TREE AND VINE CROPS

When applied as a tank mixture, this product provides control of the emerged annual weeds- and partial control of the emerged perennial weeds listed in this label. The following residual herbicides will provide preemergence control of those weeds listed in the individual product labels.

•	ROUNDUP® RT plus COAL™ 1.6E
•	- TOUNDUP -RT plus KARMEX" WP
•	ROUNDUP RT-plus KROVAR" I
-	ROUNDUP RT plus KROVAR™ II
•	ROUNDUP RT plus SIMAZINE, CALIBER 90
	- ROUNDUP RT plus CIMAZINE 4L - •
•	ROUNDUP RT plus SIMAZINE SOW
•	
•	ROUNDUP RT plus SURFLAN™ AS -
-	
• ,	ROUNDUP RT plus SIMAZINE
A	(80W, or 4L, or CALIBER 90) plus-GURFLAN-(AS-or-75W)
	ROUNDUP RT plus GOAL (1.6E)
-	ROUNDUP RT plus GOAL (1.6E)

When tank mixing with-residual herbicides, add-an-agriculturally approved nonionic-surfactant.

plus-SIMARINE-(80W,-4L, or CALIBER 90)

Do-not apply these-tank mixtures in Puerto Rico.

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CONTROL OF EMERGED WEEDS

Annual Weeds Apply 1 quart per acre of this product in these tank mixtures, when weeds are less than 12 inches tall. For weeds greater than 12 inches tall, apply 1.5 quarts per acre.

Perennial Weeds For partial control of perennial weeds using these tank mixtures, apply 2 to 5 quarts per acre of this product. Follow the recommendations in the "Weeds Controlled" section of this label for stage of growth and rate of application for specific perennial weeds.

PREEMERGENCE-WEED CONTROL

The following are the labeled rates for the recommended residual herbicides:

PRODUCT	RATE/ACRE
Goal 1:6E	1.25 to 5 qts.
Karmex WP	2-to-8-lbs.
Krovar I	2-to-8-lbs.
Krovar II	2 to 8 lbs.
Simazine, Caliber 90	1.1 to 10.6 lbs.
Simazine, 80W	11/4 to 12 lbs.
Simazine 4L	
Solicam 80WP	2\ to 5 lbs.
Surflan AS	2 to 4 qts.
Surflan 75W	22/3 to 51/3 lbs.

NOTE: These residual herbicides may provide post-emergence activity on certain annual weed species.

Refer to the individual product labels for specific crops, rates, qeographical restrictions and precautionary statements.

Read and carefully observe the label claims, cautionary statements, rates and all other information on the labels of all products.

For specific rates of application and instructions see the "Weeds Controlled" section of this label.

ROUNDUP® RT-plus GOAL

Roundup RT alone and Roundup RT plus Goal tank mixtures will control or suppress annual weeds listed below.

Apply the recommended rates plus 0.5 to 1 percent nonionic surfactant by spray volume in 3 to 10 gallons of water per acre. Apply when weeds are actively growing and less than 6 inches in height. If weeds are under drought stress, irrigate prior to application.

RECOMMENDED RATES AND WEEDS CONTROLLED

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		Ro und		- 	Roundup RT	
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WEEDS						
SPECIES	<u></u>		12	-16	-12 + 4 + 6 + 16	
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annua l						
Ba rley	······	<u>-</u> -¢	 _	-с	 €	
Ch ecoćweed,	······································		S	- S		
comon (34)	4.4					
R ocket, London		S -	- 5	c		
Sh epherdspurse		5	- S		·	
Chickveed		<u>s</u>	-c-	-c		
Fleabane,	· · · · · · · · · · · · · · · · · · ·	<u>s</u>	C			
flaxleaf						
Red Maids		<u>s</u>	е	<u> </u>		

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Barnyardgrass				
Cheeseweed, -	<u>_</u>		s	
common (3-6")				
Crabgrass		<u>- s -</u>	<u> </u>	
Groundsel,				e
common				
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Lambaquartera				
Karestail		_		—
Pigweed,			<u> </u>	<u>~</u>
redroot	•	****	~	•
Ryegrass,		<u> </u>		
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Wettle,		c		
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stinging Friaree	ţ**	£*		~
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ROUNDUPS RT plus GOAL plus GIMAGINE/GURPLAN

Phis product plus Goal, applied alone or as a three-way or fourway with simuzine and/or Surflan, will provide postemerquace dentrol of those weeds listed below when applied as recommended.

Refer to individual product labels for preemergence rates, weeds controlled, precautionary statements and other inportant information.

Apply these tank mixtures in 3 to 40 gallons of water. Add 0.5 to 1 percent nonionic surfactant by total spray volume to the spray 327 solution.

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Weed Species	Maximum - Height (inches)	Roundup® RT + Goal (quarts/acre)
Barley, — — — — — — — — — — — — — — — — — — —	4	0.5 to 1 + 0.5 to 5
Bluegrass, annual	4	0.5 to 1 + 0.5 to 5
Cheeseweed,		0.5 to 1 + 0.5 to 5
Chickweed,		0.5 to 1 + 0.5 to 5
Flaxleaf, fleabane	4	0.5 to 1 + 0.5 to 5
Groundsel,	4 .	- 0.5 to 1 + 0.5 to 5
Marestail —		-0.5 to-1-+ 0.5-to 5
Pineappleweed Rocket, London	4	0.5 to 1 + 0.5 to 5 0.5 to 1 + 0.5 to 5
Shepherdspurse		-0.5 to 1 + 0.5 to 5 0.5 to 1 + 0.5 to 5
	12	- 1 to 1.5 + 1 to 5
common Nettle,	12	1 to 1.5 + 1 to 5
- stinging Filaree	12	1 to 1.5 + 1 to 5

<u>Goal</u> is a trademark of Rohm and Haas Company.

TREE AND VINE CROPS

For use only in Idaho, Utah and Washington.

This product is recommended for weed control in established groves, vineyards, or orchards, or for site preparation prior to transplanting crops listed in this section. Applications way be made with boom equipment, CDA, shielded sprayers, hand-held and high-volume wands, lances, or orchard guns, or with wiper applicator equipment, except as directed in this section. See the "Application Equipment and Techniques" section of this label for specific information on use of equipment.

When applying this product, refer to the "Weeds Controlled" section of this label and to specific recommendations in this section for rates to be used.

NOTE

Repeat treatments may be necessary to control weeds originating from underground parts of untreated weeds or from seeds. This

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NSolicam-is a trademark of Sandoz; Inc.

product does not provide residual weed control. For subsequent weed control, use repeated applications of this product. Do not apply more than 10.6 quarts of this product per acre per year.

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE SOLUTION, SPRAY, DRIFT, OR MIST WITH FOLIAGE OR GREEN BARK OF TRUNK, BRANCHES, SUCKERS, FRUIT, OR OTHER PARTS OF TREES OR VINES. CONTACT OF THIS PRODUCT WITH OTHER THAN MATURED BROWN BARK CAN RESULT IN SERIOUS CROP DAMAGE.

AVOID PAINTING OUT STUMPS WITH THIS PRODUCT AS INJURY RESULTING FROM ROOT GRAFTING MAY OCCUR IN ADJACENT TREES.

Reduced control may result when applications are made to annual or perennial weeds that have been mowed, grazed or cut and have not been allowed to regrow to the recommended stage for treatment.

For specific rates of applications and instructions, see the "Weeds Controlled" section of this label, and to specific recommendations which follow.

STRIPS

FOR ANNUAL AND PERENNIAL WEEDS IN STRIPS OF TREE AND VINE CROPS

TANK MIXTURES WITH RESIDUAL HERBICIDES When applied as a tank mixture, this product provides control of the emerged annual weeds and control or suppression of emerged perennial weeds listed in this label. The following residual herbicides will provide preemergence control of those weeds listed in the individual product labels. MON-35085 RT plus GOAL 1.6E MON#35085 RT plus Karmex DF MON-35085 RT plus SIMAZINE, PRINCEP CALIBER 90 MON-35085 RT plus SIMAZINE 4L MON-35085 RT plus SIMAZINE 80W MON-35085 RT plus SOLICAM™ 80DF MON-35085 RT plus surflan AS MON-35085 RT plus SURPLAN 75W MON-35085 RT plus SIMAZINE (BOW, or 4L, or PRINCEP CALIBER 90) plus SURPLAN (A8 or 75W) MON-35085 RT plus GOAL (1.6E) plus SURFLAN (As or 75W)

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MON-35085 RT plus GOAL (1.6E) plus SIMAZINE (80W, DE 4L, OF PRINCEP CALIBER 90)

MON-35085 RT plus GOAL (1.6E)

plus SURFLAN (AS of 75W)

plus SIMAZINE (80W, 4L,

or PRINCEP CALIBER 90)

When tank-mixing with residual herbicides, add an agriculturally approved nonionic surfactant at 0.5 percent by volume of spray solution.

Refer to the individual product labels for specific crops, rates, geographical restrictions and precautionary statements.

Read and carefully observe the label claims; cautionary statements; rates and all other information on the labels of all products.

RECOMMENDED RATES

Annual Weeds - Apply 1 to 5 quarts per acre of this product in these tank mixtures. Use rates at the higher end of the recommended range when weeds are stressed, growing in dense populations or are greater than 12 inches tall.

Perennial Weeds - Apply 1 to 5 quarts per acre of this product in these tank mixtures to control or suppress perennial weeds. Follow-the recommendations in the "Weeds Controlled" section of this label for stage of growth and application rates for specific perennial weeds:

MON-15085 RT plus GOAL plus SIMAZINE/BURFLAN #

This product plus low rates of Goal in three-way or four-way mixtures with simazine and/or Surflan will provide postemergence control of the weeds listed below.

Refer to the individual simazine and Surflan labels for preemergence rates, weeds controlled, precautionary statements and other important information.

Apply these tank mixtures in 3 to 20 gallons of water. Add 0.5 percent nonlonic surfactant by total spray volume to the spray solution.

Apply 1 to 5 quarts per acre of this product plus 4 to 48 ounces per acre of Goal plus labeled rates of simazine and/or Surflan to a control the following weeds:

Barley, wild

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Nordeum leporinum

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sequential application of 2-to-4 fluid ounces may be made approximately 45 days after the last application.

Dermudagrass

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For burndown, apply 1 to 2 quarts-of this product plus 0.5 to 1 percent nonionic surfactant-by total spray volume in 3 to 20 gallons of water-per acre. Use 1 quart of this product in 3 to 20 gallons of water per acre east-of-the Rocky Mountains. Use 1 to 2 quarts-of this product in 3-to 10-gallons of water per acre west of the Rocky Mountains. Use this treatment only if reduction of the bermudagrass-stand can be tolerated. When burndown is required-prior to harvest, allow at-least 21 days to ensure sufficient time for burndown to occur.

Suppression only (cast of the Rocky Mountains) Apply 6 to 16 fluid ounces-plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 20 gallons of water per acre no sooner than 1 to 2 weeks after full green-up. Mowing prior to application may occur provided a minimum height of 3 inches is maintained. Rates of 6 to 10 fluid ounces plus nonionic surfactant should be used in shaded conditions or where a lesser degree of suppression is desired. Sequential applications may be made when regrowth occurs and bermudagrass injury and stand-reduction can be tolerated.

Suppression only (west of the Rocky Mountains) Apply 16 fluid ounces of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre up to 6 inches in height and no sooner than 1 to 2 weeks after full green-up. Mowing prior to application may occur provided a minimum height of 3 inches is maintained. Sequential applications may be made when regrowth occurs and bermudagrass injury and stand reduction can be tolerated.

For suppression of Kentucky-bluegrass covers, apply 6-fluid ounces of this product plus nonionic surfactant. Do not add ammonium sulfate.

For best results, mow cool season grass covers in the spring to even their height and apply the recommended rate of this product 3 to 4 days after mowing. Avoid treating cool season grass envers under poor growing conditions, such as drought stress (drip irigation), disease or insect damage.

Apply 6 to 8 fluid ounces of this product per acre to suppress (chemically mow) perennial grass covers between treescows in corporates.

For tall (coarse) fescue, fine fescue, orchardgrass or quackgrass covers use 8 fluid ounces per acre. For best suppression of these species add ammonium sulfate at 1.7 pounds per 10 gallons of spray solution.

For Kentucky bluegrass covers, use 6 fluid ounces per acre without ammonium sulfate.

Apply treatments in 20 gallons of water per acre to actively growing grass covers. Additional nonionic may be added at a rate of 0.5 percent of the total spray volume.

For best results, mow orchards in the spring and apply the appropriate rate of this product 3 to 4 days later. Do not treat grass covers under poor growing conditions such as drought stress, disease or insect damage as poor suppression may result.

Low rates will not adequately suppress broadleaf weeds such as dandelion or plantain. If broadleaf weeds make up more than 10 percent of the ground cover, mix this product with 1 quart of 2,4-D per acre which is labeled for orchard use.

TREE CROPS

Pome Fruit*: apple, pear.

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Stone Fruit***: apricots, cherries, nectarines, elives, peaches,
plums/prunes.

For cherries, any application equipment listed in this section may be used in all states.

Any application equipment listed in this section may be used in apricots, nectarines, peaches, and plums/prunes.

For peaches, remove suckers and low hanging limbs at least 10 days prior to application. Avoid applications near trees with recent pruning wounds or other mechanical injury. Aply only near trees which have been planted in the orchard for 2 or more years. EXTREME CARE MUST BE TAKEN TO ENSURE NO PART OF THE PEACH TREE IS CONTACTED.

NOTE:

- * Allow a minimum of 14 days between last application and harvest.
- ** Allow a minimum of 17 days between last application and harvest.

VINE CROPS

Grapes:* Any variety of table, wine, or raisin grape may be treated with any equipment listed in this section.

In-the-northeast and-Great-Lakes regions, applications must be made-prior-to-the end of bloom stage-of grapes to avoid injury.

* Applications should not be made when green shoots, canes, or foliage are in the spray zone.

* Allow a minimum of 14 days between last application and harvest.

NONCROP USES

See "General Information" and "Mixing, Additives and Application Instructions" sections of this label for essential product performance information and the following "Noncrop" sections for specific recommended uses.

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF SPRAY WITH FOLIAGE OF DESIRABLE TURFGRASSES, TREES, SHRUBS, OR OTHER DESIRABLE VEGETATION SINCE SEVERE DAMAGE OR DESTRUCTION MAY RESULT.

NOTE: If spraying areas adjacent to desirable plants, use a shield made of cardboard, sheet metal or plyboard while spraying to help prevent spray from contacting foliage of desirable plants.

Repeat treatments may be necessary to control weeds regenerating from underground parts or seeds.

This product does not provide residual weed control. For subsequent weed control, follow a label-approved herbicide program.

Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used.

FARMSTEAD WEED CONTROL

When applied as directed for "Noncrop Uses", under conditions described, this product controls undesirable vegetation listed on this label around farmstead building foundations, along and in fences, shelterbelts, ditch banks, dry ditches and for general nonselective farmstead weed control.

For specific rates of application and instructions for control of \sqrt{a} rious annual and perennial Weeds, see the "Weeds Controlled" section of this label.

PARM DITCHES AND WATERWAYS

This product will suppress perennial grasses along farm ditches and diversion waterways. Apply this product at a rate of 6 to 8 fluid ounces per acre. Use 8 fluid ounces per acre when treating tall (coarse) fescue, fine fescue, orchardgrass or quackgrass covers. For best suppression of these species, add ammonimum sulfate at a rate of 1.7 pounds per 10 gallons of spray solution.

Use 6 fluid ounces per acre without ammonium sulfate when treating Kentucky bluegrass.

Apply treatments in 10 to 20 gallons of spray solution per acre to actively growing perennial grass covers. For best spray distribution and coverage use flat fan nozzles:

Add a nonionic surfactant at a rate of 0.5 percent of the spray solution.

Where broadleaf weed control or suppression is desired, tank mix this product with an appropriate, labeled broadleaf weed herbicide.

This product is protected by
U.S. Patent No. 3,799,758,
U.S. Patent No. 4,405,531 and U.S. Patent No. 4,840,650.
Other patents pending.

No license granted under any non-U.S. patent(s).

EPA Reg No. 524-445

11

1990-1 1991-1 **898.15-000.01/53**

In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000.

@MONSANTO COMPANY 1990 1991

MONSANTO COMPANY AGRICULTURAL PRODUCTS ST. LOUIS, MISSOURI, 63167 U.S.A.

Monsanto

Monsanto Company Suite 1100 700 14th Street, N.W. Washington, D.C. 20005

January 22, 1991

Document Processing Center (APPL)
Office of Pesticide Programs - H7504C
U.S. Environmental Protection Agency
1921 Jefferson Davis Highway
Crystal Mall #2, Room 226A
Arlington, Virginia 22202

5389509

Attention: Mr. Robert J. Taylor Product Manager (25)

Subject: Glyphosate: MON-35085

Changes to Label

EPA File Sym. 524-UUL

Dear Sir:

4 7

The labeling for MON-35085 (R.D. No. 1001) has been amended to include the changes cited in your letter of December 20, 1990. Specifically, these changes are as follows:

- (1) The signal word has been changed to "WARNING".
- (2) The precautionary statements have been revised to include "CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY. HARMFUL IF INHALED. Do not get in eyes or breathe spray mist or get in or on clothing. Wear goggles, face shield or safety glasses. Wash thoroughly with scap and water after handling. Remove contaminated clothing and wash before reuse."
- (3) The first aid statements have been changed as follows: "IF IN EYES, hold eyelids open and flush with plenty of water. Get medical attention. IF INHALED, remove victim to fresh air. If not breathing, give artificial respiration, preferable mouth-to-mouth. Get medical attention. IF SWALLOWED, drink promptly a large quantity of milk, egg white or gelatin solution. If these are not available drink large quantities of water.

Get medical attention."

We ask the EPA to approve this submission as guickly as possible.

If you have any questions regarding this request, please contact Dr. Kevin Cannon or me.

Sincerely,

Sheila A. Schuette, Ph.D.

phile I pounts

Senior Registration Specialist

(314) 694-7248

cc: R.P. Schneider

K.F. Cannon

Fred Groya

1 1

I.C. O'Connor

MON-35085

Herbicide by Monsanto

Complete Directions for Use

EPA Reg. No. 524-XXX

AVOID CONTACT WITH FOLIAGE, GREEN STEMS, OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, SINCE SEVERE INJURY OR DESTRUCTION MAY RESULT.

This product has been approved for use in California except as stated otherwise on pages 122.

1990-1

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897.10-005.16/53

Read each of these sections of this label for essential product performance information.

USE THESE CONVENIENT SECTION MARKERS.

GENERAL INFORMATION

MIXING, ADDITIVES, AND APPLICATION INSTRUCTIONS

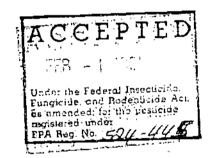
WEEDS CONTROLLED

NONCROP USES

CROPPING SYSTEMS

MINIMUM TILLAGE

TREE AND VINE CROPS



Read the entire label before using this product.

Use only according to label instructions.

Read 'LIMIT OF WARRANTY AND LIABILITY' before buying or using. If terms are not acceptable, return at once unopened.

REFORMULATION IS PROHIBITED. SEE INDIVIDUAL CONTAINER LABEL FOR REPACKAGING LIMITATIONS.

LIMIT OF WARRANTY AND LIABILITY

(9/13/90)

(CAUTION!, 7.7%, Sec.1)

(Not applicable to consumer applications applied by the homeowner for noncommercial purposes as permitted by the supplemental labeling for one-quart containers.)

This Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the Complete Directions for Use label booklet (''Directions'') when used in accordance with those Directions under the conditions described therein. NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyer and all users shall promptly notify this Company of any claims whether based in contract, negligence, strict liability, other tort or otherwise.

Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this Company, including, but not limited to, incompatibility with products other than those set forth in the Directions, application to or contact with desirable vegetation, unusual weather, weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation.

THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF THE LIABILITY OF THIS COMPANY OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED, OR, AT THE ELECTION OF THIS COMPANY OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH QUANTITY, OR, IF NOT ACQUIRED BY PURCHASE, RÉPLACEMENT OF SUCH QUANTITY. IN NO EVENT SHALL THIS COMPANY OR ANY OTHER SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES.

Buyer and all users are deemed to have accepted the terms of this LIMIT OF WARRANTY AND LIABILITY which may not be varied by any verbal or written agreement.

(INDEX PAGES)

2

(CAUTION:, 7.7%, Sec.1)

ACCEPTED
FEB - 1 1991

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under

as amended, for the pesticide registered under EPA Reg. No.524-445

(9/13/90)

Hazards to Humans and Domestic Animals

Keep out of reach of children.

WARNING! CAUTION!

4 1

CAUSES EYE IRRITATION.
HARMFUL IF SWALLOWED
OR INHALED.
MAY CAUSE SKIN IRRITATION.

Do not get in eyes, on skin or on clothing.

Avoid contact with eyes, skin or clothing.

Avoid breathing vapor or spray mist.

Remove contaminated clothing and wash contaminated clothing.

Wash thoroughly with soap and water after handling.

FIRST AID: IF IN EYES, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

IF ON SKIN, immediately flush with plenty of water. Remove contaminated elothing. Wash clothing before reuse.

IF INHALED, remove individual victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention—if breathing difficulty develops.

IF SWALLOWED, this product will cause gastrointestinal tract irritation. Immediately dilute by swallowing water or milk. Get medical attention.

In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000.

Environmental Hazards

{9/13/90}

(CAUTION:, 7.7%, Sec.1)

Do not apply directly to water or wetland (swamps, bogs, marshes or potholes). Do not contaminate water when disposing of equipment washwaters.

Physical or Chemical Hazards

Spray solutions of this product should be mixed, stored and applied only in stainless steel, aluminum, fiberglass, plastic and plasticlined steel containers.

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

ACTIVE INGREDIENT:

1

*Glyphosate, N-(phosphonomethyl)

gylcineglycine, in the form of its

isopropylamine salt......41.0%
INERT INGREDIENTS:.....59.0%

100.0%

*Contains 480 grams per litre or 4 pounds per U.S. gallon of the active ingredient, glyphosate, in the form of its isopropylamine salt. Equivalent to 356 grams per litre or 3 pounds per U.S. gallon of the acid, glyphosate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

Storage and Disposal

Do not contaminate water, foodstuffs, seed or feed or seed by storage or disposal.

DISPOSAL:

Wastes resulting from the use of this product that can not be used or chemically reprocessed should be disposed of in a landfill

(9/13/90)

(CAUTION!, 7.7%, Sec.1)

approved for pasticide disposal or in accordance with applicable Federal, state or local procedures.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is destroyed.

Do not reuse container. Triple rinse container, then puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

See container label for STORAGE AND DISPOSAL instructions.

GENERAL INFORMATION

DO NOT APPLY THIS PRODUCT USING AERIAL SPRAY EQUIPMENT EXCEPT UNDER CONDITIONS AS SPECIFIED WITHIN THIS LABEL.

MON-35085 herbicide, a water soluble liquid, mixes readily with water to be applied as a foliar spray for the control or destruction of most herbaceous plants. It may be applied through most standard industrial or field-type sprayers after dilution and thorough mixing with water in accordance with label instructions.

This product moves through the plant from the point of foliage contact to and into the root system. Visible effects on most annual weeds occur within 2 to 4 days, but on most perennial weeds may not occur for 7 days or more. Extremely cool or cloudy weather following treatment may slow down activity of this product and delay visual effects of control. Visible effects are a gradual wilting and yellowing of the plant which advances to complete browning of aboveground growth and deterioration of underground plant parts.

Unless otherwise specified on this label, delay application until vegetation has emerged and reached the stages described for control of such vegetation under the ''Weeds Controlled'' section of this label. Unemerged plants arising from unattached underground rhizomes or root stocks of perennials will not be affected by the spray and will continue to grow. For this reason, best control of most perennial weeds is obtained when treatment is made at late growth stages approaching maturity.

Always use the higher rate of this product per acre within the recommended range when (1) weed growth is heavy or dense, or (2) weeds are growing in an undisturbed (noncultivated) area.

Do not treat weeds under poor growing conditions such as drought

(9/13/90)

stress, disease or insect damage, as reduced weed control may result. Reduced results may also occur when treating weeds heavily covered with dust.

Reduced control may result when applications are made to annual or perennial weeds that have been mowed, grazed, or cut, and have not been allowed to regrow to the recommended stage for treatment.

Rainfall or irrigation occurring within 6 hours after application may reduce effectiveness. Heavy rainfall or irrigation within 2 hours after application may wash the chemical off the foliage and a repeat treatment may be required.

This product does not provide residual weed control. For subsequent residual weed control, follow a label-approved herbicide program. Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used.

Buyer and all users are responsible for all loss or damage in connection with the use or handling of mixtures of this product with herbicides or other materials that are not expressly recommended in this labeling. Mixing this product with herbicides or other materials not recommended on this label may result in reduced performance.

For best results, spray coverage should be uniform and complete. Do not spray weed foliage to the point of runoff.

Keep people and pets off treated areas until spray solution has dried.

DOMESTIC ANIMALS: This product is considered to be relatively nontoxic to dogs and other domestic animals; however, ingestion of this product or large amounts of freshly sprayed vegetation may result in temporary gastrointestinal irritation (vomiting, diarrhea, colic, etc.). If such symptoms are observed, provide the animal with plenty of fluids to prevent dehydration. Call a veterinarian if symptoms persist for more than 24 hours.

ATTENTION

AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS.

Do not allow the herbicide solution to mist, drip, drift, or splash onto desirable vegetation since minute quantities of this product can cause severe damage or destruction to the crop, plants, or other areas on which treatment was not intended. The likelihood of injury occurring from the use of this product is greatest when

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(CAUTION1, 7.7%, Sec.1)

winds are gusty or in excess of 5 miles per hour or when other conditions, including lesser wind velocities, will allow spray drift to occur. When spraying, avoid combinations of pressure and nozzle type that will result in splatter or fine particles (mist) which are likely to drift. AVOID APPLYING AT EXCESSIVE SPEED OR PRESSURE.

NOTE: Use of this product in any manner not consistent with this label may result in injury to persons, animals or crops, or other unintended consequences. Keep container closed to prevent spills and contamination.

MIXING, ADDITIVES AND APPLICATION INSTRUCTIONS

APPLY THESE SPRAY SOLUTIONS IN PROPERLY MAINTAINED AND CALIBRATED EQUIPMENT CAPABLE OF DELIVERING DESIRED VOLUMES. DO NOT APPLY UNDER WIND OR OTHER CONDITIONS WHICH ALLOW DRIFT TO OCCUR. HAND GUN APPLICATIONS SHOULD BE PROPERLY DIRECTED TO AVOID SPRAYING DESIRABLE PLANTS. NOTE: REDUCED RESULTS MAY OCCUR IF WATER CONTAINING SOIL IS USED, such as WATER FROM PONDS AND UNLINED DITCHES.

MIXING

This product mixes readily with water. Mix spray solutions of this product as follows: Fill the mixing or spray tank with the required amount of water. Add the proper amount of this product (see the ''Directions for Use'' and ''Weeds Controlled'' sections of this label) near the end of the filling process and mix well. Remove hose from tank immediately after filling to avoid siphoning back into the carrier source. During mixing and application, foaming of the spray solution may occur. To prevent or minimize foam, avoid the use of mechanical agitators, place the filling hose below the surface of the spray solution, terminate by-pass and return lines at the bottom of the tank and, if needed, use an approved antifoam or defoaming agent.

TANK MIXTURES

Always predetermine the compatibility of labeled tank mixtures of this product with water carrier by mixing small proportional quantities in advance.

Mix labeled tank mixtures of this product with water as follows:

 Place a 20 to 35 mesh screen or wetting basket over filling port.

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(CAUTION:, 7.7%, Sec.1)

- Through the screen, fill the sprayer tank one-half full with water and start agitation.
- 3. If a wettable powder is used, make a slurry with the water carrier, and add it SLOWLY through the screen into the tank. Continue agitation.
- 4. If a flowable formulation is used, premix one part flowable with one part water. Add diluted mixture SLOWLY through the screen into the tank. Continue agitation.
- 5. If an emulsifiable concentrate formulation is used, premix one part emulsifiable concentrate with two parts water. Add diluted mixture slowly through the screen into the tank. Continue agitation.
- 6. Continue filling the sprayer tank with water and add the required amount of this product near the end of the filling.
- Where nonionic surfactant is recommended, add this to the spray tank before completing the filling process.
- 8. Add individual formulations to the spray tank as follows: wettable powder, flowable, emulsifiable concentrate, drift control additive, water soluble liquid followed by surfactant.

Maintain good agitation at all times until the contents of the tank are sprayed. If the spray mixture is allowed to settle, thorough agitation is required to resuspend the mixture before spraying is resumed.

Keep by-pass line on or near bottom of tank to minimize foaming. Screen size in nozzle or line strainers should be no finer than 50 mesh. Carefully select proper nozzle to avoid spraying a fine mist. For best results with conventional ground applications equipment, use flat fan nozzles.

Clean sprayer and parts immediately after using this product by thoroughly flushing with water.

ADDITIVES

SURFACTANTS

Nonionic surfactants which are labeled for use with herbicides may be used. Do not reduce rates of this product when adding surfactant. When adding additional surfactant or label instructions

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require the use of additional surfactant, use 0.5 percent surfactant concentration (2 quarts per 100 gallons of spray solution) when using surfactants which contain at least $\frac{50-70}{20}$ percent active ingredient or a 1 percent surfactant concentration (4 quarts per 100 gallons of spray solution) for those surfactants containing less than $\frac{50-70}{20}$ percent active ingredient. Read and carefully observe surfactant cautionary statements and other information appearing on the surfactant label.

AMMONIUM SULFATE

The addition of 2 percent dry ammonium sulfate by weight or 17 pounds per 100 gallons of water may increase the performance of this product, and this product, plus 2,4-D amine or Banvel tank mixtures on annual and perennial weeds. The improvement in performance may be apparent where environmental stress is a concern. Low quality ammonium sulfate may contain material that will not readily dissolve which could result in nozzle tip plugging. To determine quality, perform a jar test by adding 1/3 cup of ammonium sulfate to 1 gallon of water and agitate for 1 minute. If undissolved sediment is observed, predissolve the ammonium sulfate in water and filter prior to addition to the spray tank. If ammonium sulfate is added directly to the spray tank, add slowly with agitation. Adding too quickly may clog outlet line. Ensure that ammonium sulfate is completely dissolved in the spray tank before adding herbicides or surfactant. Thoroughly rinse the spray system with clean water after use to reduce corrosion.

NOTE: The use of ammonium sulfate as an additive does not preclude the need for additional surfactant. Do not use herbicide rates lower than recommended in this label.

BanvelTM is a trademark of Sandoz, Inc.

COLORANTS OR DYES

Agriculturally approved colorants or marking dyes may be added to this product. Colorants or dyes used in spray solutions of this product may reduce performance, especially at lower rates or dilutions. Use colorants or dyes according to the manufacturer's recommendations.

APPLICATION EQUIPMENT AND TECHNIQUES

Do not apply this product through any type of irrigation system.
This product may be applied with the following application

(9/13/90)

(CAUTION:, 7.7%, Sec.1)

equipment:

A

3 i

Aerial -- Fixed Wing and Helicopter

Broadcast Spray

Controlled Droplet Applicator (CDA) -- Hand-held or boom-mounted applicators which produce a spray consisting of a narrow range of droplet sizes.

Hand-Held and High-Volume Spray Equipment -- Knapsack and backpack sprayers, pump-up pressure sprayers, handguns, handwands, lances and other hand-held spray equipment used to direct the spray onto weed foliage and vehicle-mounted high-volume spray equipment for spray-to-wet applications.

Selective equipment -- Recirculating sprayers, shielded sprayers and wiper applicators.

See the appropriate part of this section for specific rates of application and instructions.

AERIAL EQUIPMENT

Use the recommended rates of this herbicide in 3 to 15 gallons of water per acre unless otherwise specified on this label. See the ''Weeds Controlled'' section of this label for specific rates. Unless otherwise specified, do not exceed the one-quart rate per acre of this product. (Aerial applications of this product may be made in annual cropping conventional tillage systems, fallow and reduced tillage systems, preharvest, silvicultural sites, and rights-of-way. Refer to the individual use area sections of this label for recommended volumes and application rates.) FOR AERIAL APPLICATION IN CALIFORNIA, REFER TO THE FEDERAL SUPPLEMENTAL LABEL FOR AERIAL APPLICATIONS IN THAT STATE FOR SPECIFIC INSTRUCTIONS, RESTRICTIONS AND REQUIREMENTS.

This product plus Oust tank mixtures may not be applied by air in California.

Avoid direct application to any body of water.

AVOID DRIFT--DO NOT APPLY DURING INVERSION CONDITIONS, WHEN WINDS ARE GUSTY, OR UNDER ANY OTHER CONDITION WHICH WILL ALLOW DRIFT. DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED. TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.

*Coarse sprays are less likely to drift; therefore, do not use nozzles or nozzle configurations which dispense spray as fine spray

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(CAUTION:, 7.7%, Sec.1)

droplets. Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure.

Drift control additives may be used. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label.

Ensure uniform application -- To avoid streaked, uneven or overlapped application, use appropriate marking devices.

Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove residues of this product accumulated during spraying or from spills. PROLONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES MAY RESULT IN CORROSION AND POSSIBLE FAILURE OF THE PART. LANDING GEAR ARE MOST SUSCEPTIBLE. The maintenance of an organic coating (paint) which meets aerospace specification MIL-C-38413 may prevent corrosion.

BROADCAST EQUIPMENT

For control of annual or perennial weeds listed on this label using broadcast equipment — Use the recommended rates of this product in 3 to 40 gallons of water per acre as a broadcast spray unless otherwise specified on this label. See the ''Weeds Controlled'' section of this label for specific rates. As density of weeds increases, spray gallonage should be increased within the recommended range to ensure complete coverage. Carefully select proper nozzle to avoid spraying a fine mist. For best results with ground application equipment, use flat fan nozzles. Check for even distribution of spray droplets.

CONTROLLED DROPLET APPLICATION (CDA)

The rate of this product applied per acre by vehicle-mounted CDA equipment must not be less than the amount recommended in this label when applied by conventional broadcast equipment. For vehicle-mounted CDA equipment, apply 3 to 15 gallons of water per acre.

For the control of labeled annual weeds with hand-held CDA units, apply a 20 percent solution of this product at a flow rate of 2 fluid ounces per minute and a walking speed of 1.5 MPH (1 quart per acre). For the control of labeled perennial weeds, apply a 20 to 40 percent solution of this product at a flow rate of 2 fluid counces per minute and a walking speed of 0.75 MPH (2 to 4 quarts per acre).

Controlled droplet application equipment produces a spray pattern which is not easily visible. Extreme care must be exercised to

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(CAUTION:, 7.7%, Sec.1)

avoid spray or drift contacting the foliage or any other green tissue of desirable vegetation, as damage or destruction may result.

HAND-HELD and HIGH-VOLUME EQUIPMENT

Use coarse sprays only.

Mix this product in clean water and apply to foliage of vegetation to be controlled. For applications made on a spray-to-wet basis, spray coverage should be uniform and complete. Do not spray to the point of runoff.

For control of annual weeds listed on this label, apply a 0.5 percent solution of this product plus nonionic surfactant to weeds less than 6 inches in height or runner length. Apply prior to seedhead formation in grass or bud formation in broadleaves. Allow three or more days before tillage or mowing.

For annual weeds over 6 inches tall, or when not using additional surfactant, or unless otherwise specified, use a 1 percent solution. For best results, use a 2 percent solution on harder-to-control perennials, such as bermudagrass, dock, field bindweed, hemp dogbane, milkweed and Canada thistle.

Less than complete coverage of weeds may result from the use of spray equipment designed for motorized spot treatments. Where less than complete coverage of annual weeds occurs, use a 5 percent solution. Do not reduce recommended concentrations of this product when adding surfactant.

Prepare the desired volume of spray solution by mixing the amount of this product in water as shown in the following table:

Spray Solution

4 1

DESIRED		AMOUNT	OF MON-350	85	
A OT TIME	1/2%	1%	1 1/2%	2%	5%
; 1/gallon 25 gallons 100 gallons	2/3 oz 1 pt 2 qt	11/3 oz 1 qt 1 gal		22/3 oz 2 qt 2 gal	_

For use in knapsack sprayers, it is suggested that the proper amount of this product be mixed with water in a larger

(9/13/90)

(CAUTION:, 7.7%, Sec.1)

container. Fill sprayer with the mixed solution.

For hand-held WIPER APPLICATORS, see the ''Selective Equipment'' section and for hand-held CONTROLLED DROPLET APPLICATORS, see the ''Controlled Droplet Application (CDA)'' section of this label.

SELECTIVE EQUIPMENT

This product may be applied through a recirculating spray system, a shielded applicator, or a wiper applicator after dilution and thorough mixing with water to listed weeds growing in any noncrop site specified on this label and only when specifically recommended in cropping systems.

A recirculating spray system directs the spray solution onto weeds growing above desirable vegetation, while spray solution not intercepted by weeds is collected and returned to the spray tank for reuse.

A shielded applicator directs the herbicide solution onto weeds while shielding desirable vegetation from the herbicide.

A wiper applicator applies the herbicide solution onto weeds by rubbing the weed with an absorbent material containing the herbicide solution.

AVOID CONTACT WITH DESIRABLE VEGETATION.

Contact of the herbicide solution with the desirable vegetation may result in damage or destruction. Applicators used above desired vegetation should be adjusted so that the lowest spray stream or wiper contact point is at least two inches above the desirable vegetation. Droplets, mist, foam, or splatter of the herbicide solution settling on desirable vegetation may result in discoloration, stunting, or destruction.

Applications made above the crops should be made when the weeds are a minimum of 6 inches above the desirable vegetation. Better results may be obtained when more of the weed is exposed to the herbicide solution. Weeds not contacted by the herbicide solution will not be affected. This may occur in dense clumps, severe - infestations, or when the height of the weeds varies so that not all weeds are contacted. In these instances, repeat treatment may be necessary.

See the ''Weeds Controlled'' section of this label for recommended stage of growth for specific weeds.

NOTE

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- Maintain equipment in good operating condition. Avoid leakage or dripping onto desirable vegetation.
- Adjust height of applicator to insure adequate contact with weeds.
- Keep nozzle tips and wiping surfaces clean.
- Keep spray patterns aligned into recovery chamber of the recirculating sprayer.
- Keep shields on shielded applicators adjusted to protect desirable vegetation.
- Maintain recommended roller RPM on roller applicators while in use.
- Keep wiper material at proper degree of saturation with herbicide solution.
- DO NOT use wiper equipment when weeds are wet.
- DO NOT operate equipment at ground speeds greater than 5 mph. Weed control may be affected by speed of application equipment. As weed density increases, reduce equipment ground speed to ensure good coverage of weeds.
- Be aware that, on sloping ground, the herbicide solution may migrate, causing dripping on the lower end and drying on the upper end of a wiper applicator.
- Variation in equipment design may affect weed control. With wiper applicators, the wiping material and its orientation must allow delivery of sufficient quantities of the recommended herbicide solution directly to the weed.
- Care must be taken with all types of wipers to ensure that the absorbent material does not become oversaturated, causing the herbicide to drip on desirable vegetation.
- Mix only the amount of solution to be used during a one-day period, as reduced activity may result from use of leftover solutions. With all equipment, drain and clean sprayer and wiper parts immediately after using this product by thoroughly flushing with water.

RECIRCULATING SPRAYERS

Recirculating sprayer calibration is made on the basis of ground

(9/13/90)

(CAUTION!, 7.7%, Sec.1)

speed and delivery volume. Two procedures can be used to calibrate: (1) determine the discharge being delivered per minute, then operate at the designated ground speed, or (2) select the desired ground speed and then adjust the sprayer to deliver the recommended volume per minute (this may require nozzle changes). Use the appropriate table below.

Do not operate at nozzle pressure above 20 PSI.

Table 1. Use this table when calibrating box or row-type recirculating sprayers. Box or row-type sprayer calibration is based on the total discharge collected per row. Use only straight stream or 15° fan-type nozzles.

*VOLUME PER MINUTE PER ROW

<u>MPH</u>	<u> Ounces</u>			
2	26 to	35		
3	38 to	51		
4	51 to	68		
5	65 to	86		

*NOTE: Be certain the amount collected is for all spray streams treating one row.

Table 2. Use this table when calibrating broadcast type recirculating sprayers. Broadcast recirculating sprayer calibration is based on the discharge collected per minute from one nozzle on a 20-inch spacing.

VOLUME PER MINUTE PER NOZZLE

<u>MPH</u>	<u>Ounces</u>		
2	7 to	9	
3	10 to	13	
4	13 to	18	
5	16 to	22	

When applied as recommended under the conditions described for recirculating sprayers, this product will control the following weeds growing a minimum of 6 inches above desirable vegetation.

Perennial Broadleaf Weeds -- To SUPPRESS the following weeds, mix in a ratio of 4 quarts of this product in 20 gallons of water and apply as directed.

(9/13/90)

(CAUTION1, 7.7%, Sec.1)

Dogbane, hemp

Apocynum cannabinum

Milkweed

Asclepias syriaca

Perennial Grasses and Annual Broadleaf Weeds -- To control the following weeds, mix in a ratio of 3 quarts of this product in 20 gallons of water and apply as directed:

Cocklebur

Xanthium strumarium Pigweed, redroot

Amaranthus retroflexus

Johnsongrass

Sorghum halepense

Sunflower

Helianthus annuus

Annual Grasses -- To control the following weeds, mix in a ratio of 2 quarts of this product in 20 gallons of water and apply as directed:

Corn

Zea mays

Shattercane

Sorghum bicolor

SHIELDED APPLICATORS

When applied as directed under conditions described for shielded applicators, this product will control those weeds listed in the ''Weeds Controlled'' section of this label.

Shielded applicators which apply the herbicide solution as a spray band should be calibrated on a broadcast equivalent rate and volume basis. To determine these:

Band width in inches	v	Herbicide Broadcast	=	Herbicide Band RATE
	•	broaucast	_	Band RATE
Row width		RATE		per acre
in inches		per acre		

Band width		Herbicide		Herbicide
	Х	VOLUME of	=	VOLUME
∦Row width		solution		of solution
#Row width in inches		per acre		per acre

(9/13/90)

(CAUTION1, 7.7%, Sec.1)

Use nozzles that provide uniform coverage within the treated area. EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT WITH DESIRABLE VEGETATION.

For specific rates of application and instructions for control of various annual and perennial weeds, see the ''Weeds Controlled'' section of this label.

WIPER APPLICATORS

Wiper applicators include either roller or wick devices which physically wipe appropriate concentrations or amounts of this product directly onto the weed. Equipment must be designed, maintained, and operated to prevent the herbicide solution from contacting desirable vegetation. Operate this equipment at ground speeds no greater than 5 mph. Performance may be improved by reducing speed in areas of heavy weed infestations to ensure adequate wiper saturation. Better results may be obtained if two applications are made in opposite directions.

Do not add surfactant to the herbicide solution.

For Roller Applicators -- Mix 1 gallon of this product in enough water to prepare 10 gallons of herbicide solution (10 percent solution). Apply this solution to perennial weeds or annual broadleaf weeds listed in this ''Wiper Applicators'' section.

Mix 1 gallon of this product in enough water to provide 20 gallons of herbicide solution (5 percent solution). Apply this solution to annual grasses listed in this ''Wiper Applicators'' section.

Roller speed should be maintained at 40 to 60 RPM.

For Wick or Wiper Applicators -- Mix 1 gallon of this product in 2 gallons of water to prepare a 33 percent solution. Apply this solution to weeds listed in this ''Wiper Applicators'' section.

In severe infestations, reduce equipment ground speed to ensure that adequate amounts of this product are wiped on the weeds. A second treatment in the opposite direction may be beneficial.

Do not permit herbicide solution to contact desirable vegetation.

When applied as recommended under the conditions described for 'Wiper Applicators', this product CONTROLS the following weeds:

i ANNUAL GRASSES

Corn

Rye, common

(9/13/90)

(CAUTION:, 7.7%, Sec.1)

Zea mays

Secale cereale

Panicum, Texas
Panicum texanum

Shattercane Sorghum bicolor

ANNUAL BROADLEAVES

Sicklepod Cassia obtusifolia

Spanishneedles
Bidens bipinnata

Starbur, bristly
Acanthospermum
hispidum

When applied as recommended under the conditions described for ''Wiper Applicators'', this product SUPPRESSES the following weeds:

ANNUAL BROADLEAVES

Beggarweed, Florida
Desmodium
tortuosum

Dogfennel
Eupatorium
capilliflorium

Pigweed, redroot
Amaranthus
retroflexus

Ragweed, common Ambrosia artemisiifolia

PERENNIAL GRASSES

Bermudagrass
Cynodon dactylon

Guineagrass
Panicum maximum

johnsongrass Sorghum halepense

PERENNIAL BROADLEAVES

Ragweed, giant Ambrosia trifida

Sunflower
Helianthus annuus

Thistle, musk Carduus nutans

Velvetleaf
Abutilon theophrasti

Smutgrass
Sporobolus poiretii

Vaseygrass Paspalum urvillei

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(CAUTIONI, 7.7%, Sec.1)

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Dogbane, hemp
Apocynum cannabinum

Nightshade, silverleaf Solanum elaeagnifolium

Milkweed Ascelepias syriaca

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Thistle, Canada Cirsium arvense

WEEDS CONTROLLED

This herbicide controls many annual and perennial grasses and broadleaf weeds.

ANNUAL WEEDS

- Apply to actively growing grass and broadleaf weeds.
- Allow at least 3 days after treatment before tillage.
- For maximum agronomic benefit, apply when weeds are 6 inches or less in height.
- To prevent seed production, applications should be made prior to seedhead formation.
- This product does not provide residual control; therefore, delay application until maximum weed emergence. Repeat treatments may be necessary to control later germinating weeds.

LOW-VOLUME BROADCAST APPLICATION (LOW-RATE TECHNOLOGY)

When applied as directed under the conditions described, this product will control the weeds listed below when:

- 1. Water carrier volumes are 3 to 10 gallons per acre for ground applications and 3 to 5 gallons per acre for aerial applications. (See the ''Aerial Application'' section of this label for approved sites.)
- 2. A nonionic surfactant is added at 0.5 to 1 percent by total spray volume. Use 0.5 percent surfactant concentration when using surfactants which contain at least 5070 percent active ingredient or a 1 percent surfactant concentration for those surfactants containing less than 5070 percent active ingredient.

NOTE

(9/13/90)

- The addition of 2 percent dry ammonium sulfate by weight or 17 pounds per 100 gallons of water may increase the performance of this product on annual weeds. The improvement in performance may be apparent where environmental stress is a concern. Refer to the ''Mixing, Additives and Application Instructions'' section of this label.
- Do not tank-mix with soil residual herbicides when using these rates unless otherwise specified.
- For weeds that have been mowed, grazed, or cut, allow regrowth to occur prior to treatment.
- Refer to the ''Tank Mixtures'' portion of this section for control of additional broadleaf weeds.

WEED SPECIES	MAXIMUM HEIGHT	RATE PER ACRE**	
Foxtail Setaria spp.	12"	8 oz.	
Barnyardgrass Echinochloa crus-galli	6" (0 to 4" (4 to 6"	12 oz. 16 oz. ¹) 24 oz. ¹)	

Bluegrass, annual
Poa annua

1 1

Brome, downy*
Bromus tectorum

Mustard, blue Chorispora tenella

Mustard, tansy
Descurainia pinnata

Mustard, tumble Sisymbrium altissimum

Mustard, wild Sinapis arvensis

∮Spurry, umbrella ∯ Holosteum umbellatum

(9/13/90)

Barley 12" Hordeum vulgare - 1.2 e som agent of the Secale cereale Sandbur, field Cenchrus spp. Shattercane Sorghum bicolor Stinkgrass Eragrostis cilianensis Wheat 18" Triticum aestivum 2" Morningglory Ipomea spp. Sicklepod

Cassia obtusifolia

1

Bluegrass, bulbous
Poa bulbosa

Cheat Bromus secalinus

Chickweed, mouseear Cerastium vulgatum

Corn Zea mays

Gfoundsel, common Senecio vulgaris

Horseweed/Marestail Conyza canadensis

Lambsquarters, common Chenopodium album

Pennycress, field

(CAUTION:, 7.7%, Sec.1)

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(9/13/90)

16 oz.

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Fanweed Thlaspi arvense

Rocket, London Sisymbrium irio

Ryegrass, Italian
Lolium multiflorum

Shepherdspurse Capsella bursa-pastoris

Buttercup Ranunculus spp.

Cocklebur Xanthium strumarium

Crabgrass Digitaria spp.

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Dwarfdandelion Krigia cespitosa

Falseflax, smallseed Camelina microcarpa

Foxtail, Carolina Alopecurus carolinianus

Johnsongrass, seedling⁾ Sorqhum halepense

Oats, wild Avena fatua

Panicum, fall
Panicum dichotomiflorum

Panicum, Texas Panicum texanum

Pigweed, redroot Amaranthus retroflexus

Pigweed, smooth Amaranthus hybridus

Witchgrass

(CAUTION:, 7.7%, Sec.1)

(9/13/90)

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12#

Panicum capillare

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Sicklepod Cassia obtusifolia	3 to 4"	24 oz
Cussia Obcasiiolia		
Signalgrass, broadleaf	4 **	
Brachiaria platyphylla		
Horseweed/Marestail	7 to 12"	•
Conyza canadensis		•
Lambsquarters, common		
Chenopodium album		
	<u> </u>	· · · · · · · · · · · · · · · · · · ·
Ceaweed	4 11	32 oz.
Sida spinosa		
Rice, red	611	
Oryza sativa	•	
Geranium, Carolina	12 ^H	
Geranium carolinianum	•	
Goosegrass		
Eleusine indica		
Primrose, cutleaf evening		
Oenothera laciniate		
Pusley, Florida		
Richardia scabra		
Bicklepod	5 to 12"	
Cassia obtusifolia	5 60 12	
Spanishneedles Bidens bipinnata		
*	•	
	129	40
rxiares Erodium spp.	12"	48 02.

Use these rates in Alabama, Arkansas, Mississippi, Missouri, Louisiana and Texas for preplant treatments.

For control in no-till systems, use 16 fluid ounces per acre.

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(CAUTION:, 7.7%, Sec.1)

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** For those rates less than 32 ounces per acre, this product at rates up to 32 ounces per acre may be used where heavy weed densities exist.

TANK MIXTURES

MON-35085 plus BANVEL plus NONIONIC SURFACTANT

MON-35085 plus 2,4-D AMINE plus NONIONIC SURFACTANT

DO NOT APPLY BANVEL OR 2,4-D AMINE TANK MIXTURES BY AIR IN CALIFORNIA.

These tank mixtures are recommended for use in fallow and reduced tillage areas only. Follow use directions as given in the ''Low-Volume Broadcast Application'' section.

MON-35085 plus Banvel or 2,4-D amine will control the annual grasses and broadleaf weeds previously listed for MON-35085 alone at the indicated heights (except 8 ounces per acre applications), plus the following broadleaf weeds. For those weeds previously listed at 8 ounces of MON-35085 herbicide alone per acre, use the 12-ounce rate in these tank mixtures.

NOTE: Refer to the specific product labels for crop rotation restrictions and cautionary statements of all products used in tank mixtures. Some crop injury may occur if Banvel is applied within 45 days of planting. The addition of Banvel in a mixture with this product may provide short-term residual control of selected weed species.

Apply 12 to 16 ounces of this product plus 0.25 lb. a.i. of Banvel or 0.5 pound a.e. of 2,4-D amine, plus 0.5 to 1 percent nonionic surfactant by total spray volume per acre to control dense populations of the following annual broadleaf weeds when less than 6 inches in height:

Kochia*
Kochia scoparia

Pigweed, redroot
Amaranthus retroflexus

Lambsquarters Chenopodium album Thistle, Russian Salsola kali

Lettuce, prickly Lactuca serriola

(9/13/90)

(CAUTIONI, 7.7%, Sec.1)

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*Controlled with Banvel tank mixture only.

HIGH-VOLUME BROADCAST APPLICATIONS

When applied as directed under the conditions described, this product will control the weeds listed below when water carrier volumes are 10 to 40 gallons per acre for ground applications.

Use 1 quart of this product per acre if weeds are less than 6 inches tall. If weeds are over 6 inches tall, use 1.5 quarts of this product per acre plus 0.5 to 1 percent nonionic surfactant by total spray volume. Use 1 quart per acre if weeds are less than 6 inches tall and 1.5 quarts per acre if weeds are over 6 inches tall. If weeds have been mowed, grazed, or cut, allow adequate time for new growth to recommended stages prior to treatment. These rates will also provide control of weeds listed in the ''Low-Volume Broadcast Application'' section.

WEED SPECIES

Balsamapple*
Momordica charantia

Bassia, fivehook
Bassia hyssopifolia

Brome Bromus spp.

Fiddleneck
Amsinckia spp.

Flaxleaf Fleabane Conyza bonariensis

Fleabane Erigeron spp.

Kochia Kochia scoparia

Lettuce, prickly Lactuca serriola

Panicum Panicum spp.

Ragweed, common
Ambrosia artemisiifolia

Ragweed, giant
Ambrosia trifida

Smartweed, Pennsylvania
Polygonum pensylvanicum

Sowthistle, annual Sonchus oleraceus

Sunflower
Helianthus annuus

Thistle, Russian
Salsola kali

VelvetleafAbutilon theophrasti

*Apply with hand-held equipment only.

PERENNIAL WEEDS

(9/13/90)

(CAUTION1, 7.7%, Sec.1)

Apply this product as follows to control or destroy most perennial weeds:

NOTE: If weeds have been mowed or tilled, do not treat until plants have resumed active growth and are at the recommended stages.

Repeat treatments may be necessary to control weeds regenerating from underground parts or seed. Repeat treatments must be made prior to crop emergence.

The addition of 2 percent dry ammonium sulfate by weight or 17 pounds per 100 gallons of water may increase the performance of this product on perennial weeds. The improvement in performance may be apparent where environmental stress is a concern. Refer to the ''Mixing, Additives and Application Instructions'' section of this label.

When applied as recommended under the conditions described, this product WILL CONTROL the following PERENNIAL WEEDS:

Alfalfa

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Medicago sativa

Alligatorweed*
Alternanthera
philoxeroides

Artichoke, Jerusalem Helianthus tuberosus

Bahiagrass Paspalum notatum

Bentgrass
Agrostis spp.

Bermudagrass Cynodon dactylon

Bfndweed, field ;Convolvulus arvensis

Bluegrass, Kentucky Poa spp.

Blueweed, Texas Helianthus ciliaris

Brackenfern

(9/13/90)

(CAUTION!, 7.7%, Sec.1)

Pteridium aquilinum

Bromegrass, amouth Bromus inermis

Bursage, woollyleaf Franseria tomentosa

Canarygrass, reed
Phalaris arundinacea

Cattail Typha spp.

Clover, red
 Trifolium pratense

Clover, white Trifolium repens

Cogongrass
Imperata cylindrica

Dallisgrass
Paspalum dilatatum

Dandelion Taraxacum officinale

Dock, curly Rumex crispus

Dogbana, hemp Apocynum cannabinum

Fescues
Festuca spp.

Fescue, tall
Festuca arundinacea

Guineagrass

Pancium maximum

Horsenettla | Solanum carolinense

∮Horseradish ∰ Armoracia rusticana

(CAUTION:, 7.7%, Sec.1)

Johnsongrass Sorghum halepense

Kikuyugrass Pennisetum clandestinum

Knapweed Centaurea repens

Lantana camara

Milkweed Asclepias spp.

Muhly, wirestem
Muhlenbergia frondonsa

Mullein, common Verbascum thapsus

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Napiergrass Pennisetum purpureum

Nightshade, silverleaf Solanum elaeagnifolium

Nutsedge, purple, yellow Cyperus rotundus Cyperus esculentus

Orchardgrass
Dactylis glomerata

Pampas Cortaderia jubata

Paragrass _eBrachiaria mutica

Phragmites*
Phragmites spp.

Quackgrass
Agropyron repens

∛ Reed, giant ∦ Arundo donax

.Ryegrass, perennial Lolium perenne

Smartweed, swamp Polygonum coccineum

Sweet potato, wild*

Ipomoea pandurata

Thistle, Canada Cirsium arvense

Timothy
Phleum pratense

Torpedograss*
Panicum repens

Vaseygrass Paspalum urvillei

Wheatgrass, western Agropyron smithii

*Partial Control

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See ''Directions for Use'' and ''Mixing, Additives and Application Instructions'' sections of this label for labeled uses and specific application instructions.

Alfalfa--Apply 1 quart of this product per acre plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre. Make application after the last hay cutting in the fall. Allow alfalfa to regrow to a height of 6 to 8 inches or more prior to treatment. Applications should be followed with deep tillage at least 7 days after treatment, but before soil freeze-up.

Alfigatorweed--Apply 4 quarts of this product per acre or apply a 1½ percent solution with hand-held equipment to provide partial control. Apply when most of the plants are in bloom. Repeat applications will be required to maintain such control.

Bentgrass—For suppression in grass seed production areas. For ground applications only, apply 1.5 quarts of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 10 to 20 gallons of water per acre. Ensure entire crown area has resumed growth prior to a fall application. Bentgrass should be actively growing and have at least 3 inches of growth. Tillage prior to

treatment should be avoided. Tillage 7 to 10 days after application is recommended for best results. Failure to use tillage after treatment may result in unacceptable control.

Bermudagrass—For control, apply 5 quarts of this product per acre and, for partial control, apply 3 quarts per acre. Treat when bermudagrass is actively growing and seedheads are present. Retreatment may be necessary to maintain control. Allow 7 or more days after application before tillage.

Bindweed, field/Blueweed, Texas--Apply 4 to 5 quarts of this product per acre west of the Mississippi River and 3 to 4 quarts per acre east of the Mississippi River. Apply when weed is actively growing and is at or beyond full bloom. Do not treat when weed is under drought stress as good soil moisture is necessary for active growth. New leaf development indicates active growth. For best results, apply in late summer or fall. Fall treatments must be applied before a killing frost. Allow 7 or more days after application before tillage.

Bindweed, field (suppression irrigated lands where annual tillage is performed) -- Apply 1 quart of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre. Apply to actively growing bindweed that has reached a length of 12 inches or greater. Allow maximum weed emergence and runner growth. Do not treat when weed is under drought stress as good soil moisture is necessary for active growth. Allow 3 or more days after application before tillage.

Bluegrass, Kentucky / Bromegrass, smooth / Orchardgrass--Apply 2 quarts of this product in 10 to 40 gallons of water per acre when the grasses are actively growing and most plants have reached boot-to-early seedhead stage of development. For partial control in pasture or hay crop renovation, apply 1 to 1½ quarts of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre. Apply to actively growing plants when most have reached 4 to 12 inches in height. Allow 7 or more days after application before tillage.

Orchardgrass (sods going to no-till corn) -- Apply 1 to 1.5 quarts of this product per acre plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre. Apply to orchardgrass that is a minimum of 12 inches tall for spring applications and 6 inches tall for fall applications. Allow at least three days following application before planting. A sequential application of 3.75 to 4.5 quarts of Lariat® herbicide, or equivalent, will be necessary for optimum results. Lariat should be applied within 3 to 10 days following spring applications to prevent annual weed growth.

(9/13/90)

Lariat is not registered for use in California.

®Lariat is a registered trademark of Monsanto Company.

Brackenfern--Apply 3 to 4 quarts of this product per acre as a broadcast spray or as a 1 to $1\frac{1}{2}$ percent solution with hand-held equipment. Apply to fully expanded fronds which are at least 18 inches long.

Bursage, woollyleaf--For control, apply 2 quarts of this product plus 1 pint of Banvel per acre. For partial control, apply 1 quart of this product plus 1 pint of Banvel per acre. Add 0.5 to 1 percent nonionic surfactant by total spray volume and apply 3 to 20 gallons of water per acre. Apply when plants are producing new active growth which has been initiated by moisture for at least 2 weeks and when plants are at or beyond flowering.

Canarygrass, reed/Timothy / Wheatgrass, western--Apply 2 to 3 quarts of this product per acre. For best results, apply to actively growing plants when most have reached the boot-to-head stage of growth. Allow 7 or more days after application before tillage.

Cogongrass--Apply 3 to 5 quarts of this product plus 0.5 to 1 percent nonionic surfactant in 10 to 40 gallons of water per acre. Apply when Cogongrass is at least 18 inches tall and actively growing in late summer or fall. Allow 7 or more days after application before tillage or mowing. Due to uneven stages of growth and the dense nature of vegetation preventing good spray coverage, repeat treatments may be necessary to maintain control.

Dogbane, hemp/Knapweed/Horseradish--Apply 4 quarts of this product per acre. Apply when actively growing and when most weeds have reached the late bud to flower stage of growth. Following crop harvest or mowing, allow weeds to regrow to a mature stage prior to treatment. For best results, apply in late summer or fall. Allow 7 or more days after application before tillage.

Fescue, tall--Apply 3 quarts of this product in 10 to 40 gallons of water per acre to actively growing plants when most have reached boot-to-early seedhead stage of development.

Fall applications only--Apply 1 quart of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre. Apply to fescue in the fall when actively growing and plants have 6 to 12 inches of new growth. Allow 7 or more days after application before tillage. A sequential application of 1 pint per acre of this product plus nonionic surfactant will improve long-term control and control seedlings germinating after fall treatments or the following

spring.

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Guineagrass--Apply 3 quarts of this product per acre or use a 1 percent solution with hand-held equipment. Apply to actively growing guineagrass when most has reached at least the 7-leaf stage of growth. Ensure thorough coverage when using hand-held equipment. Allow 7 or more days after application before tillage.

Johnsongrass/Ryegrass, perennial--Apply 1 to 3 quarts of this product per acre. In annual cropping systems apply 1 to 2 quarts of this product per acre. Apply 1 quart of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre.

Use 2 quarts of this product when applying 10 to 40 gallons of water per acre. In noncrop or areas where annual tillage (notill), is not performed, apply 2 to 3 quarts of this product in 10 to 40 gallons of water per acre. For best results, apply to actively growing plants when most have reached the boot-to-head. stage of growth or in the fall prior to frost. Allow 7 or more days after application before tillage. Do not tank-mix with residual herbicides when using the 1 quart per acre rate.

For burndown of Johnsongrass, apply 1 pint per acre plus 0.5 to 1 percent nonionic surfactant in 3 to 10 gallons of water per acre before the plants reach a height of 12 inches. For this use, allow at least 3 days after treatment before tillage.

Spot Treatment (partial control or suppression) -- Apply a 1 percent solution of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume when johnsongrass is 12 to 18 inches in height. Coverage should be uniform and complete.

Kikuyugrass--Apply 2 to 3 quarts of this product per acre. Spray when most kikuyugrass is at least 8 inches in height (3 or 4-leaf stage of growth) and actively growing. Allow 3 or more days after application before tillage.

Lantana—Apply this product as a 1 to 1\(\frac{1}{2}\) percent solution using hand-held equipment only. Apply to actively growing lantana at or beyond the bloom stage of growth. Use the higher application rate for plants that have reached the woody stage of growth. Allow 7 or more days after application before tillage.

Milkweed, common--Apply 3 quarts of this product per acre. Apply when actively growing and most of the milkweed has reached the late bud to flower stage of growth. Following small grain harvest or mowing, allow milkweed to regrow to a mature stage prior to treatment. Allow 7 or more days after application before tillage.

Muhly, wirestem--Apply 1 to 2 quarts of this product per acre. Use 1 quart of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre. Use 2 quarts of this product when applying 10 to 40 gallons of water per acre or in pasture, sod, or noncrop areas. Spray when the wirestem muhly is 8 inches or more in height and actively growing. Do not till between harvest and fall applications or in the fall or spring prior to spring applications. Allow 3 or more days after application before tillage. This product will not provide residual control of wirestem muhly from seeds which germinate after application of this product. Do not tank mix with residual herbicides when using the 1 quart per acre rate.

Nightshade, silverleaf--For control, apply 2 quarts of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre. Applications should be made when at least 60 percent of the plants have berries. Fall treatments must be applied before a killing frost. Allow 7 or more days after application before tillage. Do not treat when weed is under drought stress as good soil moisture is necessary for active growth.

Nutsedge: purple, yellow--Apply 3 quarts of this product per acre as a broadcast spray, or apply a 1 percent solution from hand-held equipment to control existing nutsedge plants and immature nutlets attached to treated plants. Treat when plants are in flower or when new nutlets can be found at rhizome tips. Nutlets which have not germinated will not be controlled and may germinate following treatment. Repeat treatments will be required for long-term control. Wait 7 days after treatment before tillage. Tillage will stimulate nutlet germination.

Apply 1 pint to 1 quart of this product per acre, plus 0.5 to 1 percent nonionic surfactant in 3 to 40 gallons of water per acre to provide suppression or partial control of existing nutsedge plants. Treat when plants have 3 to 5 leaves (less than 6 inches). Repeat treatments will be required to control subsequent emerging plants. Wait 7 days after treatment before tillage or mowing.

Pampas--Apply this product as a 1½ to 2 percent solution using hand-held equipment. Apply to plants that are actively growing at or beyond the boot stage of growth. Thorough coverage is necessary for best control.

Phragmites—For partial control of phragmites in Florida and the counties of other states bordering the Gulf of Mexico, apply 5 quarts per acre as a broadcast spray or apply a 2 percent solution from hand-held equipment. In other areas of the U.S., apply 3 quarts per acre as a broadcast spray or apply a 1 percent solution from hand-held equipment for partial control. For best results, treat during late summer or fall months or when plants are actively

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(CAUTION!, 7.7%, Sec.1)

growing and in full bloom. Treatment before or after this stage may lead to reduced control. Due to the dense nature of the vegetation, which may prevent good spray coverage or uneven stages of growth, repeat treatments may be necessary to maintain control. Visual control symptoms will be slow to develop.

Quackgrass—In Annual Cropping Systems, or in Pastures and Sods Followed by Deep Tillage: Apply 1 to 2 quarts of this product per acre. For the one quart rate, apply 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre. For the 2 quart rate, apply in 10 to 40 gallons of water per acre. Do not tank mix with residual herbicides when using the 1 quart rate. Spray when quackgrass is 8 to 12 inches in height and actively growing. Do not till between harvest and fall applications or in fall or spring prior to spring application. Allow 3 or more days after application before tillage. In pastures or sods, for best results use a moldboard plow.

Quackgrass—Pasture or Sod or Other Noncrop Areas Where Deep Tillage is Not Planned Following Application: Apply 2 to 3 quarts in 10 to 40 gallons of water per acre. Spray when the quackgrass is greater than 8 inches tall and actively growing. Do not till between harvest and fall application or in fall or spring prior to spring application. Allow 3 or more days after application before tillage.

Reed, giant—For control of giant reed, apply a 2 percent solution of this product when plants are actively growing. Best results are obtained when applications are made in late summer to fall.

Sweet Potato, wild-Apply this product as a 2 percent solution using hand-held equipment. Apply to actively growing weeds that are at or beyond the bloom stage of growth. Repeat applications will be required. Allow the plant to reach the recommended stage of growth before retreatment. Allow 7 or more days before tillage.

Thistle, Canada—Apply 2 to 3 quarts of this product per acre. Apply to actively growing thistles when most are at or beyond the bud stage of growth. After harvest, mowing or tillage in the late summer or fall, allow at least 4 weeks for initiation of active growth and rosette development prior to the application of this product. Fall treatments must be applied before a killing frost. Allow 3 or more days after application before tillage.

For suppression of Canada thistle, apply 1 quart per acre of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre in the late summer or fall after harvest, mowing or tillage. Allow rosette regrowth to a minimum of 6 inches in diameter before treating. Applications can be made as long as leaves are still green and plants are actively growing at the time of application. Allow 3 or more days after

application before tillage.

Torpedograss—Apply 4 to 5 quarts of this product per acre to provide partial control of torpedograss. Apply to actively growing torpedograss when most plants are at or beyond the seedhead stage of growth. Repeat applications will be required to maintain control. Fall treatments must be applied before frost. Allow 7 or more days after application before tillage.

Other perennials listed on this label—Apply 3 to 5 quarts of this product per acre. Apply when actively growing and most have reached early head or early bud stage of growth. Allow 7 or more days after application before tillage.

TANK MIXTURES

When applied as directed, under the conditions described, MON-35085 plus Banvel or 2,4-D amine will suppress or control the following perennial broadleaf weed:

Bindweed, field Convolvulus arvensis

For suppression, apply 16 ounces of this product plus 0.5 lb a.e. of 2,4-D amine or 0.25 lb a.i. of Banvel, plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre for ground applications and 3 to 5 gallons of water per acre for aerial applications. Applications should be delayed until maximum emergence has occurred and when vines are between 6 to 18 inches in length. These tank mixtures may be applied using aerial application equipment (except in California) in fallow and reduced tillage systems only.

For control, apply 2 quarts of this product plus 0.5 pound a.i. of Banvel in 10 to 20 gallons of water per acre. At these rates, apply using ground application equipment only.

Irrigated Agricultural Lands

Apply 1 to 2 quarts of this product plus 1 quart per acre of 2,4-D amine in 10 to 20 gallons of water per acre with ground equipment only for partial control (suppression) of field bindweed. Applications should be made following harvest or in fall fallow ground when the bindweed is actively growing and the majority of trunners are 12 inches or more in length. The use of at least one irrigation will promote active bindweed growth.

H Dogbane, hemp Apocynum cannabium

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(CAUTION:, 7.7%, Sec.1)

For suppression, apply 16 ounces of this product plus 16 ounces of 2,4-D amine plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre for ground applications and 3 to 5 gallons of water per acre for aerial applications. Delay applications until maximum emergence of dogbane has occurred. For control, apply 4 quarts of this product in 3 to 20 gallons of water using ground application equipment only.

Smartweed, Swamp

Polygonum coccineum

For control, apply 16 ounces of this product plus 0.5 pounds active ingredient of 2,4-D amine plus 0.5 to 1 percent nonionic surfactant by total volume in 3 to 10 gallons of water per acre in the late summer or fall. Apply when plants are actively growing and most have reached the early bud stage of growth. Allow 7 or more day after application before tillage.

Refer to the specific product labels for crop rotation restrictions and cautionary statements of all products in tank mixture.

WOODY BRUSH AND TREES

When applied as recommended under the conditions described, this product CONTROLS or PARTIALLY CONTROLS the following woody brush, plants and trees:

Alder

1

Alnus spp.

Ash*

Fraxinus spp.

Aspen, quaking Populus tremuloides

Bearmat (Bearclover)
Chamaebatia foliolosa

Birch

Betula spp.

Blackberry Rubus spp.

∤ Broom:

French

(9/13/90)

(CAUTION!, 7.7%, Sec.1)

Cytisus monspessulanus

Bootch

Cytisus scoparius

Buckwheat, California*
Eriogonum fasciculatum

Cascara*

Rhamnus purshiana

Catsclaw*

Acacia greggi

Ceanothus*

Ceanothus spp.

Chamise

Adenostoma fasciculatum

Cherry:

1

Bitter

Prunus emarginata

Black

Prunus serotina

Pin

Prunus pensylvanica

Coyote brush

Baccharis consanguinea

Creeper, Virginia*

Parthenocissus quinquefolia

Dawberry

Rubus trivialis

Erderberry

Sambucus spp.

Elm*

ტ Ulmus spp.

Eucalyptus, Bluegum

Eucalyptus glotulus

Hasardia*

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Haplopappus squamosus

Hawtborn

Crataegus spp.

Hazel

Corylus spp.

Honeysuckle

Lonicera spp.

Kudzu

Pueraria lobata

Locust, black*

Robinia pseudoacacia

Madrone

Arbutus menziesii

Manzanita

Arctostaphylos spp.

Maple:

4 1

Red

Acer rubrum

8ugar

Acer saccharum

Vine*

Acer circinatum

Monkey Flower*

Mimulus guttatus

Oak:

Black*

Querçus velutina

Northern Pin

Quercus palustris

Post

Quercus stellata

Red

Quercus rubra

(CAUTION:, 7.7%, Sec.1)

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Southern Red Quercus falcata

White*
Quercus alba

Persimmon*
Diospyros spp.

Poison Ivy
Rhus radicans

Poison Oak
Rhus toxicodendron

Poplar*, yellow Liriodendron tulipifera

Raspberry Rubus spp.

Rose, multiflora Rosa multiflora

Russian-oliva***
Elaeagnus angustifolia

Sage, black Salvia mellifera

Sagebrush, California Artemisia californica

Salmonberry Rubus spectabilis

Sassafras Sassafras aibidum

Sourwood Oxydendrum arboreum

Sumac:
Poison*
Rhus vernix

Smooth• Rhus glabra

Winged*

(CAUTION:, 7.7%, Sec.1)

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Rhus copallina

Sweetqum

Liquidambar styraciflua

Swordfern*

Polystichum munitum

Tallowtree, Chinese Sapium sebiferum

Tan Oak

Lithocarpus densiflorus

Thimbleberry

Rubus parviflorus

Tobacco, tree*

Nicotiana glauca

Trumpetcreeper

Campsis radicans

Willow

Salix spp.

- Partial control
- ** See below for control or partial control instructions.
- *** This product is not registered in California for use on Russian-olive.

NOTE: If brush has been mowed or tilled or trees have been cut, do not treat until regrowth has reached the recommended stages of growth.

Apply this product when plants are actively growing and, unless otherwise directed, after full leaf expansion. Use the higher rate for larger plants and/or dense areas of growth. On vines, use the higher rate for plants that have reached the woody stage of growth. Best results are obtained when application is made in late summer or fall after fruit formation.

In arid areas, best results are obtained when application is made in the spring to early summer when brush species are at high moisture content and are flowering.

f Ensure thorough coverage when using hand-held equipment. Symptoms f may not appear prior to frost or senescence with fall treatments.

Allow 7 or more days after application before tillage, mowing or

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removal. Repeat treatments may be necessary to control plants regenerating from underground parts or seed. Some autumn colors on undesirable deciduous species are acceptable provided no major leaf drop has occurred. Reduced performance may result if fall treatments are made following a frost.

See ''Directions for Use'', and ''Mixing, Additives, and Application Instructions'' sections of this label for labeled uses and specific application instructions.

Apply this product as follows to control or partially control the following woody brush and trees.

Alder/Dewberry/Honeysuckle/Post Oak/Raspberry-For control, apply 3 to 4 quarts per acre of this product as a broadcast spray or as a 1 to $1\frac{1}{2}$ percent solution with hand-held equipment.

Aspen, quaking/Cherry: bitter, black, pin/Hawthorn /Oak, southern red/Sweetgum/Trumpetcreeper— For control, apply 2 to 3 quarts of this product per acre as a broadcast spray or as a 1 to $1\frac{1}{2}$ percent solution with hand-held equipment.

Birch/Elderberry/Hazel/Salmonberry/Thimbleberry-For control, apply 2 quarts per acre of this product as a broadcast spray or as a 1 percent solution with hand-held equipment.

Blackberry-For control, apply 3 to 4 quarts per acre of this product as a broadcast spray, or 1 to $1\frac{1}{2}$ percent solution with hand-held equipment. Make application after plants have reached full leaf maturity. Best results are obtained when applications are made in late summer or fall. After berries have set or dropped in late fall, blackberry can be controlled by applying a 3/4 percent solution of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume with hand-held equipment. For control of blackberries after leaf drop and until killing frost or as long as stems are green, apply 3 to 4 quarts of this product in 10 to 40 gallons of water per acre.

Broom: French, Scotch-For control, apply a $1\frac{1}{2}$ to 2 percent solution with hand-held equipment.

Buckwheat, California/Hasardia/Monkey Flower/ Tobacco, tree-For partial control of these species, apply a 1 to 2 percent solution of this product as a foliar spray with hand-held equipment. Thorough coverage of foliage is necessary for best results.

Catsclaw—For partial control, apply as a 1 to 1½ percent solution with hand-held equipment.

 ${}^{*}_{p}$ Coyote Brush-For control, apply a $1\frac{1}{2}$ to 2 percent solution with

hand-held equipment when at least 50 percent of the new leaves are fully developed.

Eucalyptus/Bluegum-For control of eucalyptus resprouts, apply a 2 percent solution of this product with hand-held equipment when resprouts are 6 to 12 feet tall. Ensure complete coverage. Apply when plants are growing actively. Avoid application to drought-stressed plants.

Rudzu-For control, apply 4 quarts of this product per acre as a broadcast spray or as a 2 percent solution with hand-held equipment. Repeat applications will be required to maintain control.

Madrone resprouts—For suppression or partial control, apply a 2 percent solution of this product to resprouts less than 3 to 6 feet tall. Best results are obtained with spring/early summer treatments.

Maple, red**-For control, apply as a 1 to 1½ percent solution with hand-held equipment when at least 50 percent of the new leaves are fully developed. For partial control, apply 2 to 4 quarts of this product per acre as a broadcast spray.

Maple, sugar/Oak, northern pin/Oak red—For control, apply as a 1 to 1½ percent solution with hand-held equipment when at least 50 percent of the new leaves are fully developed.

Poison Ivy/Poison Oak-For control, apply 4 to 5 quarts of this product per acre as a broadcast spray or as a 2 percent solution with hand-held equipment. Repeat applications may be required to maintain control. Fall treatments must be applied before leaves lose green color.

Rose, multiflora—For control, apply 2 quarts of this product per acre as a broadcast spray or as a 1 percent solution with handheld equipment. Treatments should be made prior to leaf deterioration by leaf-feeding insects.

Sage, black/Sagebrush, California/Chamise/Tallowtree, Chinese—For control of these species, apply a 1 percent solution of this product as a foliar spray with hand-held equipment. Thorough coverage of foliage is necessary for best results.

Tan oak resprouts—For suppression or partial control, apply a 2 percent solution of this product to resprouts less than 3 to 6 feet tall. Best results are obtained with fall applications.

Willow—For control, apply 3 quarts of this product per acre as a broadcast spray or as a 1 percent solution with hand-held

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equipment.

Other Woody Brush and Trees listed on this label-For partial control, apply 2 to 4 quarts of this product per acre as a broadcast spray or as a 1 to 2 percent solution with hand-held equipment.

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NONCROP USES

See ''General Information'' and ''Mixing, Additives and Application Instructions'' sections of this label for essential product performance information and the following ''Noncrop'' sections for specific recommended uses.

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF SPRAY WITH FOLIAGE OF DESIRABLE TURFGRASSES, TREES, SHRUBS, OR OTHER DESIRABLE VEGETATION SINCE SEVERE DAMAGE OR DESTRUCTION MAY RESULT.

NOTE: If spraying areas adjacent to desirable plants, use a shield made of cardboard, sheet metal or plyboard while spraying to help prevent spray from contacting foliage of desirable plants.

Repeat treatments may be necessary to control weeds regenerating from underground parts or seeds.

This product does not provide residual weed control. For subsequent weed control, follow a label-approved herbicide program.

Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used.

INDUSTRIAL, RECREATIONAL AND PUBLIC AREAS

When applied as directed for ''Noncrop Uses'', under conditions described, this product controls annual and perennial weeds listed on this label growing in areas such as airports, ditch banks, dry ditches, dry canals, fencerows, golf courses, highways, industrial plant sites, lumber yards, parking areas, parks, petroleum tank farms and pumping installations, pipelines, power and telephone rights+of+way, railroads, roadsides, schools, storage areas, other public areas and similar industrial or noncrop areas.

For specific rates of application and instructions for control of various annual and perennial weeds and woody brush and trees, see the ''Weeds Controlled'' section of this label.

This product may be applied with recirculating sprayers, shielded applicators, or wiper applicators in any noncrop site specified on this label. See the ''Selective Equipment part of ''Application Equipment and Techniques'' section of this label for information on proper use and calibration of this equipment.

TANK MIXTURES FOR

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(CAUTION!, 7.7%, Sec.2)

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INDUSTRIAL SITES AND FORESTRY SITE PREPARATIONS

MON-35085 plus OUSTIN

Use on industrial sites including airports, industrial plants, lumberyards, petroleum tank farms, pumping stations, pipelines, railroads, roadsides, storage areas or other similar sites where bare ground is desired.

This tank mixture may also be used as a site preparation treatment for sites to be planted to jack pine, loblolly pine, red pine, slash pine and Virginia pine.

When applied as directed for ''Noncrop Uses'' under the conditions described, this product plus Oust provides control of annual weeds listed in the ''Weeds Controlled'' section of the label for this product and Oust, and control or partial control of the perennial weeds listed below.

Apply 1 to 2 quarts of this product with 2 to 4 ounces of Oust in 10 to 40 gallons of spray solution per acre as a broadcast spray to actively growing weeds.

This mixture may be applied by aerial equipment in site prep operations. When applied by air, use the recommended rates in 5 to 15 gallons of spray solution per acre.

This product plus Oust tank mixtures may not be applied by air in California.

For control of annual weeds, use the lower rates of these products.

For control of the listed perennial weeds, use the higher rates of both products. For partial control, use the lower rates.

Bahiagrass

Paspalum notatum

Bermudagrass*

Cynodon dactylon

Broomsedge

Andropogon virginicus

Dock, curly Rumex crispus

Dogfennel

Eupatorium

(CAUTION:, 7.7%, Sec.2)

capilliforium

Fescue, tall Festuca arundinacea

Johnsongrass** Sorghum halepense

Poorjoe** Diodia teres

Ouackgrass Agropyron repens

Trumpetcreeper* Campsis radicans

Vaseygrass Paspalum urvillei

Vervain, blue Verbena hastata

- * : *Suppression at the higher rates only.
 - **Control at the lower rates.

Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used.

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TANK MIXTURES NONCROP SITES

When applied as a tank mixture, this product provides control of the emerged annual weeds and partial control of the emerged perennial weeds listed in this label. When applied as a tank mixture, the following residual herbicides will provide preemergence control of the weeds listed in the individual product labels.

> MON-35085 plus DIURON MON-35085 plus KROVARTH I MON-35085 plus KROVAR II MON-35085 plus RONSTAR TH 50WP

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	MON-35085 plus SIMAZINE, PRINCEP ^{IN} CALIBER ^{IM} 90	•
•	MON-35085 plus SIMAZINE 4L	•
•	MON-35085 plus SIMAZINE 80W	•
•	MON-35085 plus SURFLAN™ 75W	•
•	MON-35085 plus SURFLAN AS	

When tank mixing with residual herbicides, add an agriculturally approved nonionic surfactant at 0.5 to 1 percent by volume of spray solution. See the ''Mixing, Additives and Application Instructions'' section of this label before preparing these tank mixtures.

Read and carefully observe the label claims, cautionary statements, recommended use rates and all other information on the labels of all products used in these tank mixtures. Use according to the most restrictive label directions for each product in the mixture.

CONTROL OF EMERGED WEEDS

Annual Weeds-Apply 1 quart per acre of this product in these tank mixtures when weeds are less than 6 inches tall and 1 quarts per acre when weeds are more than 6 inches tall.

Perennial Weeds—For partial control of perennial weeds using these tank mixtures, apply 2 to 5 quarts per acre of this product. Follow the recommendations in the ''Weeds Controlled'' section of this label for stage of growth and rate of application for specific perennial weeds.

PREEMERGENCE WEED CONTROL

The following are the labeled rates for the recommended residual herbicides for noncrop uses:

PRODUCT	RATE/ACRE
Diuron, Karmex [™] DF	2 to 8 lbs
Krovar I	4 to 6 lbs
Krovar II	2 to 5 lbs
Ronstar 50WP	4 to 8 lbs
Simazine, Princep Caliber 90	5.3 to 11.1 lbs
Simazine 80W	6 to 12-1/2 lbs
Simazine 4L	4.8 to 10 gts

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Refer to the individual product labels for specific noncrop sites, rates, carrier volumes and precautionary statements.

Mix only the quantity of spray solution which can be used during the same day. Do not allow these tank mixtures to stand overnight as this may result in reduced weed control.

APPLY THESE TANK MIXTURES THROUGH CONVENTIONAL BROADCAST EQUIPMENT ONLY.

FARMSTEAD WEED CONTROL

When applied as directed for ''Noncrop Uses'', under conditions described, this product controls undesirable vegetation listed on this label around farmstead building foundations, along and in fences, shelterbelts, and for general nonselective farmstead weed control.

For specific rates of application and instructions for control of various annual and perennial weeds, see the 'Weeds Controlled'' section of this label.

ORNAMENTALS

THIS PRODUCT IS NOT RECOMMENDED FOR USE AS AN OVER-THE-TOP BROADCAST SPRAY IN ORNAMENTALS.

When applied as directed for the conditions described for ''Noncrop Uses'', this product controls undesirable vegetation listed on this label prior to planting ornamentals, in established ornamentals, and within and around greenhouses and shadehouses.

For specific rates of application and instructions for control of various annual and perennial weeds, see the ''Weeds Controlled'' section of this label.

Where repeat applications are necessary, do not exceed 10.6 quarts

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^{**}Karmex and **Krovar are trademarks of E.I. du Pont de Nemours and Company.

TMRonstar is a trademark of Rhone-Poulenc, Inc.

TMSurflan is a trademark of Elanco Products Company.

of this product per acre per year.

Site Preparation—Following preplant applications of this product, any ornamental species may be planted. Precautions should be taken to protect nontarget plants during site preparation applications.

Greenhouse/8hadehouse Use—This product may be used to control weeds listed on this label which are growing in greenhouses. Desirable vegetation must not be present during application and air circulation fans must be turned off.

Postdirected Spray-Use as a directed spray toward the base of established woody ornamentals species listed below.

Arborvitae

Thuja spp.

Azalea

Rhododendron spp.

Boxwood

Buxus spp.

Crabapple

Malus spp.

Euonymus

Euonymus spp.

Fir

Abies spp. Pseudotsuga spp.

Hollies

Ilex spp.

Lilac

Syringa spp.

Magnolia

Magnolia spp.

Maple.

Acer spp.

Oak

Quercus spp.

Privet

Liqustrum spp.

Pine

Pinus spp.

Spruce

Picea spp.

Yew

Taxus spp.

SILVICULTURAL SITES, RIGHTS-OF-WAY and CHRISTMAS TREES

NOTE: NOT RECOMMENDED FOR USE AS AN OVER-THE-TOP BROADCAST SPRAY IN SILVICULTURAL NURSERIES, OR CHRISTMAS TREE PLANTATIONS.

When applied as directed for ''Noncrop Uses'' under conditions described, this product controls undesirable vegetation listed on this label. This product also suppresses or controls undesirable vegetation listed on this label when applied at recommended rates for release of established coniferous species listed on this label.

(CAUTION:, 7.7%, Sec.2)

For specific rates of application and instructions for control of various brush, annual and perennial weeds, see the ''Weeds Controlled'' section of this label. For specific rates of application for release of listed coniferous species, see the ''Conifer Release'' part of this section of the label.

Where repeat applications are necessary, do not exceed 10.6 quarts of this product per acre per year.

Aerial Application—This product may be applied using aerial spray equipment for silvicultural site preparation, conifer release and rights—of—way treatments. See the ''Application Equipment and Techniques'' part of the ''Mixing, Additives and Application Instructions'' section of this label for information on how to properly spray this product by air.

DO NOT APPLY THIS PRODUCT BY AIR TO RIGHTS-OF-WAY SITES IN THE STATE OF CALIFORNIA.

In order to reduce the aerial application drift hazard to aquatic sites*, to nontarget sites, or any site containing desirable vegetation, always maintain appropriate buffer zones. A buffer zone of the following minimum distances should be maintained:

- Helicopters using a Microfoil[™] boom, a Thru-Valve[™] boom (TVB-45), or equivalent drift control systems, should maintain at least a 50-foot buffer zone.
- When using other aerial equipment:
- Maintain at least a 75-foot buffer zone for applications using 2 quarts or less per acre of this product.
- 2. Maintain at least a 125-foot buffer zone for applications using more than 2 quarts per acre of this product.
- 3. Maintain at least a 400-foot buffer zone for applications on rights-of-way when applied from 75 feet or more above ground level.

These distances should be increased if conditions favoring drift exist.

Aquatic sites include all lakes, ponds, and streams used for significant domestic purposes or angling.

Indicate it is a trademark of Union Carbide Agricultural Products, Inc.

Thru-Valve is a trademark of Waldrum Specialties, Inc.

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SITE PREPARATION

Following preplant applications of this product, any silvicultural species may be planted.

POSTDIRECTED SPRAY

In established silvicultural sites, use as a spray on the foliage of undesirable vegetation. Care must be exercised to avoid contact of spray, drift or mist with foliage or green bark of desirable species.

CONIFER RELEASE

For release, apply only where conifers have been established for more than one year. Vegetation should not be disturbed prior to treatment or until visual symptoms appear after treatment. Symptoms of treatment are slow to appear, especially in woody species treated in late fall. Injury may occur to conifers treated for release, especially where spray patterns overlap or the higher rates are applied or when applications are made during periods of active conifer growth. Do not use additional surfactant with conifer release applications.

Applications must be made after formation of final conifer resting buds in the fall or prior to initial bud swelling in spring. Some autumn colors on undesirable deciduous species are acceptable provided no major leaf drop has occurred. Use the following rates for conifer release to control or partially control the weeds listed in the ''Weeds Controlled'' section of this label.

For release of the following conifer species:

Douglas fir

Pines*

Pseudotsuga menziesii

Pinus spp.

Fir

Spruce

Abies spp.

Picea spp.

Hemlock

Tsuga spp.

Includes all species except eastern white pine, loblolly pine or slash pine.

Apply 1½ to 2 quarts of this product per acre except in Washington and Oregon, west of the crest of the Cascade Mountains. For spring treatments west of the crest of the Cascade Mountains; apply 1 quart of this product per acre before conifer bud swell for control

(CAUTION:, 7.7%, Sec.2)

of annual weeds. For fall treatments in Washington and Oregon, west of the crest of the Cascade Mountains, apply 1 to 1 quarts of this product per acre before any major leaf drop of deciduous species.

For release of western hemlock, apply 1 quart of this product per acre.

For release of the following conifer species:

Loblolly pine

Pinus taeda

Slash pine Pinus elliottii

Eastern white pine Pinus strobus

Late Season Application—Apply 1½ to 2 quarts of this product in a minimum of 5 gallons of spray solution per acre during early autumn. Applications made prior to September 1 or when conditions are conducive to rapid growth of conifers will result in potential for increased injury in the form of tip and/or needle burn. Injury may decrease with later applications. Some autumn colors are acceptable at time of application. Apply prior to frost or leaf drop of undesirable plants. Applications made according to label directions will release loblolly pine, eastern white pine and slash pine by reducing competition from the following species:

Ash

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Fraxinus spp.

Cherry: Black

Prunus serotina

Pin

Prunus pensylvanica

Elm

Ulmus spp.

Hawthorn

Crataegus spp.

Locust, black

Robina pseudoacacia

Maple, red

Acer rubra

Oak:

Black

Quercus velutina

Persimmon

Diospyros spp.

Poplar, yellow

Liriodendron tulipfera

Sassafras

Sassafras albidum

Sourwood

Oxydendrum arboreum

Sumac:

Poison

Rhus vernix

Smooth

Rhus glabra

Winged

Rhus copallina

Sweetgum

Liquidambar styraciflua

(CAUTION!, 7.7%, Sec.2)

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Post

Quercus stellata

Southern Red

Quercus falcata

White

3 7

Quercus alba

Apply only to those sites where woody brush and trees listed in this label constitute the majority of the undesirable species.

MON-35085 plus Oust Tank Mixtures for Conifer Release from Herbaceous Weeds

To release loblolly pines from herbaceous weeds, tank mixtures of this product with Oust will provide control of annual weeds listed in the ''Weeds Controlled'' section of this and the Oust label, and partial control of the perennial weeds listed below.

Apply 16 to 24 fluid ounces of this product with 2 to 4 ounces of Oust in 10 to 30 gallons of spray solution per acre. Make application to actively growing weeds as a broadcast spray over the top of the young loblolly pines.

This product plus Oust tank mixtures may not be applied by air in California.

This tank mixture may be applied using aerial equipment. When applying by air, use the recommended rate in 5 to 15 gallons of spray solution per acre.

For control of annual weeds below 12 inches in height (or runner length on annual vines), use the low rates of both products. Use the higher rates of both products when annual weeds are in more advanced stages of growth and approaching flower or seed formation.

Use the higher rates of both products for partial control of the following perennial weeds. Use the lower rates for suppression of growth.

Bahiagrass

Paspalum notatum

Broomsedge

Andropogon virginicus

Dock, curly
Rumex crispus

(CAUTION!, 7.7%, Sec.2)

Dogfennel
Eupatorium
capilliforium

Fescue, tall-Festuca arundinacea

Johnsongrass**
Sorghum halepense

Poorjoe**
Diodia teres

Trumpetcreeper*
Campsis radicans

Vaseygrass Paspalum urvillei

Vervain, blue Verbena hastata

*Suppression at the higher rates only.

**Control at the higher rates.

Pine damage may occur or can be accentuated if treatment takes place when young trees are under stress from drought, flood water, insects or disease.

Read and observe the cautionary statements and all other information appearing on the label of all herbicides used.

NOTE TO USER

This product must not be used in areas where adverse impact on Federally designated endangered/threatened plant or aquatic species is likely.

Prior to making applications, the user of this product must determine that no such species are located in or immediately adjacent to the area to be treated.

CUT STUMP TREATMENTS

Woody vegetation may be controlled by treating freshly cut stumps of trees and resprouts with this product. Apply this product using suitable equipment to ensure coverage of the entire cambium. Cut vegetation close to the soil surface. Apply a 50 to 100 percent solution of this product to the freshly cut surface immediately after cutting. Delays in application may result in reduced

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performance. For best results, applications should be made during periods of active growth and full leaf expansion.

When used according to directions for cut stump application, this product will CONTROL, PARTIALLY CONTROL or SUPPRESS many types of woody brush and tree species, some of which are listed below:

Alder

Alnus spp.

Eucalyptus/Bluegum
Eucalyptus qlotulus

Madrone

Arbutus menziesii

Oak

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Quercus spp.

Reed, giant
Arundo donax

Saltcedar

Tamarisk spp.

Sweetqum

Liquidambar styraciflua

Tan Oak

Lithocarpus densiflorus

Willow

Salix spp.

INJECTION AND FRILL APPLICATIONS

Woody vegetation may be controlled by injection or frill application of this product. Apply this product using suitable equipment which must penetrate into the living tissue. Apply the equivalent of 1 ml of this product per each 2 to 3 inches of trunk diameter. This is best achieved by applying 50 to 100 percent concentration of this material either to a continuous frill around the tree or as cuts evenly spaced around the tree below all branches. As tree diameter increases in size, better results are achieved by applying diluted material to a continuous frill or more closely spaced cuttings. Avoid application techniques that allow runoff to occur from frill or cut areas in species that exude sap freely after frills or cutting. In species such as this, make frill or cut at an oblique angle so as to produce a cupping effect and use undiluted material. For best results, application should be made during periods of active growth and after full leaf expansion.

This treatment WILL CONTROL the following woody species:

Oak

Quercus spp.

Sweetgum

Liquidambar styraciflua

Poplar

Populus spp.

Sycamore

Platanus occidentalis

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This treatment WILL SUPPRESS the following woody species:

Black gum Nyssa sylvatica

Hickory Carya spp.

Dogwood Cornus spp. Maple, red
Acer rubrum

TURFGRASSES AND GRASSES FOR SEED PRODUCTION

PREPLANT AND RENOVATION

When applied as directed for ''Noncrop Uses'', under conditions described, this product controls most existing vegetation prior to the planting or renovation of either turfgrasses or grass seed production areas.

For specific rates of application and instructions for control of various annual and perennial weeds, and woody brush and trees, see the ''Weeds Controlled'' section of this label.

For maximum control of existing vegetation, delay planting to determine if any regrowth from escaped underground plant parts occurs. Where repeat treatments are necessary, sufficient regrowth must be attained prior to application. For warm-season grasses, such as bermudagrass, summer or fall applications provide best control.

DO NOT DISTURB SOIL OR UNDERGROUND PLANT PARTS BEFORE TREATMENT. Tillage or renovation techniques such as vertical mowing, coring or slicing should be delayed for 7 days after application to allow proper translocation into underground plant parts.

TURFGRASSES

Where existing vegetation is growing in a field or unmowed situation, apply this product to actively growing weeds at the stages of growth given in the ''Weeds Controlled'' section of this label.

Where existing vegetation is growing under mowed turfgrass management, apply this product after omitting at least one regular mowing to allow sufficient growth for good interception of the spray.

Desirable turfgrasses may be planted following the above procedures.

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GRASSES FOR SEED PRODUCTION

Apply this product to actively growing weeds at the stages of growth given in the ''Weeds Controlled'' section of this label prior to planting or renovation of turf or forage grass areas grown for seed production.

DO NOT feed or graze treated areas within 8 weeks after application.

ANNUAL WEED CONTROL IN DORMANT BERMUDAGRASS AND BAHLAGRASS TURF

When applied as directed for ''Noncrop Uses'' under the conditions described, this product will provide control or suppression of many winter annual weeds and tall fescue for effective release of dormant bermudagrass and bahiagrass turf. Refer to the rate table for MON-35085 alone under the ''Release of Bermudagrass and Bahiagrass'' section of this label for recommended rates and volumes on the species to be suppressed or controlled. Treat only when turf is dormant and prior to spring greenup. Spot treatments or broadcast applications of this product in excess of 16 ounces per acre may result in injury or delayed greenup in highly maintained turfgrass areas; i.e., golf courses, lawns, etc. DO NOT APPLY TANK MIXTURES of MON-35085 plus Oust in highly maintained turfgrass areas.

RELEASE OF BERMUDAGRASS OR BAHLAGRASS

NOTE: Use only in areas where bermudagrass or bahiagrass are desirable ground covers and where some temporary injury or discoloration can be tolerated. Use MON-35085 plus Oust tank mixtures only on railroads, highways, utility plant sites, or other right-of-way areas.

When applied as directed for 'Noncrop Uses' under the conditions described, this product will provide control or suppression of many winter annual weeds and tall fescue for effective release of dormant bermudagrass or bahiagrass. This product may be tank-mixed with Oust as recommended for residual control. Make applications to dormant bermudagrass or bahiagrass. MON-35085 plus Oust tank mixture may delay greenup. To avoid delays in greenup and minimize injury, do not add more than 1 ounce per acre of Oust on bermudagrass or more than 1 ounce per acre on bahiagrass, or treat when these grasses are in a semi-dormant condition.

For best results on winter annuals, treat when plants are in an early growth stage (below 6 inches in height) after most have

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germinated. For best results on tall fescue, treat when fescue is in or beyond the 4 to 6-leaf stage.

WEEDS CONTROLLED

Rate recommendations for control or suppression of winter annuals and tall fescue are listed below:

Apply the recommended rates of this product alone or as a tank mixture in 10 to 25 gallons of water, plus 0.5 to 1 percent nonionic surfactant by total spray volume per acre.

For the best recommendation for the mixture of weeds within your geographic areas, contact your Monsanto sales representative.

WEEDS CONTROLLED OR SUPPRESSED WITH MON-35085 ALONE*

NOTE: C = Control

1

S = Supression

							
	MON-35085 OZ/ACRE						
WEED SPECIES	8	12	16	24	32	64	
Barley, little Hordeum pusilium	S	С	С	С	С	C	
Bedstraw, catchweed Galium aparine	s	С	С	С	С	c .	
Bluegrass, annual Poa annua	S	С	С	С	С	С	
Chervil Chaerophyllum tainturieri	S	С	С	С	С	С	
Chickweed, common Stellaria media	s	С	C	С	С	С	
Clover, crimson Trifolium incarnatum	•	s	S	С	С	C	
Clover, large hop Trifolium campestre	•	S	S	С	С	c	

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Fescue, tall Festuca arundinaceae	•	•		•	S	. S
Geranium, Carolina Geranium carolinianum	•	•	S	S	, C	С
Henbit Lamium amplexicaule	•	S	С	С	С	C ·
Ryegrass Italian Lolium multiflorum	•	•	S	С	С	С
Speedwell, corn Veronica arvensis	S	С	С	С	С	С
Vetch, common Vicia sativa	•	•	S	С	c ·	С

* These rates apply only to sites where an established competitive turf is present.

WEEDS CONTROLLED OR SUPPRESSED WITH MON-35085 PLUB OUST*

NOTE: C = Control

S = Suppression

MON-35085 + OUST (OZ/ACRE)

WEED SPECIES	MON-35085 + OUST	+	8 + 1	12 + ½		16 + }		+	6
				•					
Barley, little Hordeum pusilium		С	С	С	С	С	С	С	
Bedstraw, catchweed Galium aparine		С	С	С	С	С	С	С	
Bluegrass, annual Poa annua		s	С	С	С	С	С	С	
Chervil Chaerophyllum tainturieri		С	С	С	С	С	С	С	

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Chickweed, common Stellaria media	s .	C	С	С	С	C	C
Clover, crimson Trifolium incarnatum	s	S	S	S	С	С	c
Clover, large hop Trifolium campestre	•	•	S	s	s	С	C ·
Fescue, tall Festuca arundinaceae	•	•	•	•	•	S	S
Geranium, Carolina Geranium carolinianum	•	s	s	С	С	С	С
Henbit Lamium amplexicaule	•	s	C	С	С	С	С
Ryegrass, Italian Lolium multiflorum	•	s	s	С	С	С	С
Speedwell, corn Veronica arvensis	s	С	C	С	С	С	С
Vetch, common Vicia sativa	С	С	С	С	С	С	С

These rates or mixtures of rates apply only to sites where an established competitive turf is present.

RELEASE OF ACTIVELY GROWING BERMUDAGRASS

When applied as directed, this product will aid in the release of bermudagrass by providing control of annual species listed in the ''Weeds Controlled'' section of this and the Oust label, and suppression or partial control of certain perennial weeds.

For control or suppression of those annual species listed on this label, use 1 to 3 pints of this product as a broadcast spray in 10 to 25 gallons of spray solution per acre. Use the lower rate when treating annual weeds below 6 inches in height (or length of runner in annual vines). Use higher rate as size of plants increases or as they approach flower or seedhead formation.

Use the higher rate of this product for partial control of the j following perennial species. Use the lower rates for suppression of growth. For best results, see the ''Weeds Controlled'' section of this label for proper stage of growth.

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Bahiagrass Paspalum notatum

Bluestem, silver
Andropogon saccharoides

Fescue, tall
Festuca arundinacea

Johnsongrass**
Sorghum halepense

Trumpetcreeper*
Campsis radicans

Vaseygrass Paspalum urvillei

- *Suppression at higher rates only.
- **Control at the higher rates.

This product may be tank-mixed with Oust. If tank-mixed, use no more than 1 to 2 pints per acre of MON-35085 herbicide with 1 to 2 ounces of Oust per acre.

Use the lower rates of both mixtures to control annual weeds below 6 inches in height (or runner length in annual vines) that are listed in the ''Weeds Controlled'' section of this booklet and the Oust label. Use the higher rates as annual weeds increase in size and approach the flower or seedhead stages.

Use the higher rates of this product to provide partial control of the following perennial weeds. Use the lower rates for suppression of growth.

Bahiagrass Paspalum notatum

Bluestem, silver Andropogon saccharoides

Broomsedge Andropogon virginicus

Dock, curly Rumex crispus

Dogfennel Eupatorium capilliforium

(CAUTION!, 7.7%, Sec.2)

Fescue, tall Festuca arundinacea

Johnsongrass*
- Sorghum halepense

Poorjoe**
Diodia teres

Trumpetcreeper*
Campsis radicans

VaseygrassPaspalum urvillei

Vervain, blue Verbena hastata

- *Suppression at higher rates only.
- **Control at the higher rates.

Use only on well-established bermudagrass. Bermudagrass injury may result from the treatment but regrowth will occur under moist conditions. Repeat applications in the same season are not recommended, since severe injury may result.

Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used.

COOL SEASON TURF GROWTH REGULATION

When applied as directed, this product will suppress growth and seedhead development of listed turf species in industrial sites.

This product is recommended for management of coarse turfs on roadside rights-of-way or other industrial areas. Do not use on high-quality turfs or other areas where some turf color changes cannot be tolerated. Slight turf discoloration may occur but turf will regreen and regrow under moist conditions as effects of this product wear off.

Apply 4 to 6 fluid ounces of this product per acre alone or in a recommended tank mixture. Spray volumes of 10 to 40 gallons per acre are recommended.

When using this product, mix 2 quarts of a nonionic surfactant per 100 gallons of spray solution.

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This product can be used for growth and seedhead suppression of:

Tall Fescue Smooth Brome

For best results, apply this product in a recommended tank mixture to actively growing turfgrasses after greenup in the spring of the year. For suppression of seedheads, applications must be made before boot-to-seedhead stage of development. Applications made from seedhead emergence until maturity may result in turf discoloration or injury.

After mowing or removal of seedheads, this product in a recommended tank mixture may also be used to suppress the growth of certain turfgrasses. Allow turf to recover from stress caused by heat, drought, or mowing before making applications. Applications made to turf under stress may increase the potential for discoloration or injury.

ANNUAL GRASSES

For growth suppression of some annual grasses such as annual ryegrass, wild barley and wild oats, apply 3 to 4 ounces of this product in 10 to 40 gallons of spray solution per acre. Applications should be made when annual grasses are actively growing and before the seedheads are in the boot stage of development. Treatments made after seedhead emergence may cause injury to the desired grasses.

TANK MIXTURES

For the following tank mixtures, consult each product label for weeds controlled and the correct stage of application. Do not treat turf under stress.

Tank mixtures plus 2,4-D Amine

For additional weed control benefits, up to 1 quart per acre of 2,4-D amine may be added to the following tank mixtures. Consult the label for 2,4-D amine for weeds controlled.

TALL FESCUE

MON+35085 plus Telar™

For suppression of tall fescue growth and seedheads, and control for partial control of some annual weeds, apply this tank mixture after greenup and prior to boot-to-seedhead stage of development. Use up to ½ ounce of Telar per acre.

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This tank mixture can also be applied after mowing or removal of tall fescue seedheads for turf growth suppression. Make only one of the above applications per growing season.

MON-35085 plus Oust

For suppression of tall fescue growth and seedheads, and control or partial control of some annual weeds, apply this tank mixture after greenup and prior to boot-to-seedhead stage of development. Use up to 1/4 ounce of Oust per acre.

MON-35085 plus Escort™

This tank mixture can be applied after mowing or removal of tall fescue seedheads for turf growth suppression and control or partial control of some annual weeds. Use up to 1/3 ounce of Escort per acre.

SMOOTH BROME

MON-35085 plus Oust

For suppression of smooth brome growth and seedheads and control or partial control of some annual weeds, apply this tank mixture after greenup and prior to boot-to-seedhead stage of development. Use up to 1/4 ounce of Oust per acre.

TMEscort and Telar are trademarks of E. I. du Pont de Nemours and Company.

BAHIAGRASS SEEDHEAD AND VEGETATIVE SUPPRESSION

When applied as directed in the indicated noncrop areas (roadsides, airports, golf course roughs, and plant sites), this product will provide significant inhibition of seedhead emergence and will suppress vegetative growth for a period of approximately 45 days with single applications and approximately 120 days with sequential applications.

Apply this product 1 to 2 weeks after full greenup of bahiagrass or after the bahiagrass has been mowed to a uniform height of 3 to inches. Applications must be made prior to seedhead emergence. Apply 6 fluid ounces per acre of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 10 to 25 gallons of water per acre.

Sequential applications of this product plus 0.5 to 1 percent

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nonionic surfactant by total spray volume may be made at approximately 45 day intervals to extend the period of seedhead and vegetative growth suppression. For continued seedhead suppression, sequential applications must be made prior to seedhead emergence. Apply no more than 2 sequential applications per year. As a first sequential application, apply 4 fluid ounces of this product per acre plus nonionic surfactant. A second sequential application of 2 to 4 fluid ounces per acre plus nonionic surfactant may be made approximately 45 days after the last application.

A tank mixture of MON-35085 plus Oust may be applied only on roadsides for seedhead inhibition and vegetative suppression. Apply 6 fluid ounces per acre of this product plus 0.25 ounce per acre of Oust, plus 0.5 to 1 percent nonionic surfactant by total spray volume 1 to 2 weeks following an initial spring mowing. When using MON-35085 plus Oust for suppression of bahiagrass, make only one application per year.

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CROPPING SYSTEMS

See ''General Information' and ''Mixing, Additives and Application Instructions' sections of this label for essential product performance information.

See the following ''Cropping Systems'' sections for specific recommended uses.

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF SPRAY WITH FOLIAGE, GREEN STEMS OR FRUIT OF DESIRABLE CROPS, PLANTS, TREES OR OTHER DESIRABLE VEGETATION SINCE SEVERE DAMAGE OR DESTRUCTION MAY RESULT.

Repeat treatments may be necessary to control weeds regenerating from underground parts or seed. Except as otherwise specified on this label, repeat treatments must be made before the crop emerges in accordance with the instructions of this label.

Except as otherwise specified in a crop section of this label, the combined total of all treatments must not exceed 8 quarts per acre of this product per year.

Do not plant subsequent crops other than those on the label for 30 days following application.

For other cropping systems, except following spot treatment in forage grasses and legumes, do not harvest or feed treated crops for 8 weeks after application. Allow 14 days following spot treatment or selective equipment use before grazing domestic livestock or harvesting forage grasses and legumes.

When applied as directed for ''Cropping Systems'', under the conditions described, this product controls annual and perennial weeds listed on this label, prior to the emergence of direct seeded crops or prior to transplanting of crops listed on this label.

ALFALFA*
ARTICHOKE,
JERUSALEM
ASPARAGUS*
ATEMOYA
BARLEY*
BEANS (All)
BEET GREENS
BEETS (Red, Sugar)
BLACKBERRY
BLUEBERRY
BOYSENBERRY
BROCCOLI
CABBAGE

(CAUTION!, 7.7%, Sec.3)

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CARAMBOLA
    CARROT
    CAULIFLOWER
    CELERY
    CHICORY
    CORN (All) *
    COTTON*
    CRANBERRY
    CUCUMBER ***
    CURRANT
    DEWBERRY
    EGGPLANT * * *
    ELDERBERRY
    FORAGE GRASSES*
    FORAGE LEGUMES*
    GARLIC***
    GOOSEBERRY
    GOURDS***
    HORSERADISH
    HUCKLEBERRY
    KALE
    LENTILS
    LETTUCE
    LOGANBERRY
    MELONS***
MUSTARD GREENS
    OATS*
    OKRA
    OLALLIEBERRY
    ONION
    PARSNIPS
    PEANUTS
    PEAS (All)
    PEPPER***
    PINEAPPLE****
    POTATO (Irish, Sweet)
    PUMPKIN***
    RADISH
    RASPBERRY (Black, Red)
    RICE**
  . RUTABAGA
    SORGHUM (Milo)
    SOYBEANS*
  SPINACH
    SQUASH*** (Summer,
      Winter)
  SUGAR APPLE
   TOMATILO***
   FOMATOES *** †
   TURNIPS
    WATERMELON***
    WATERCRESS***
    WHEAT*
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YAMS

- * Spot treatments may be applied in these crops.
- ** Do not treat rice fields or levees when the fields contain flood water.
- *** Apply only prior to planting. Allow at least 3 days between application and planting.
- ****Do not feed or graze treated pineapple forage following application.
 - † Use is restricted to direct seeded crops only.

When transplanting this product prior to transplanting crops into plastic mulch, care must be taken to remove residues of this product from the plastic prior to transplanting. Residues can be removed by 1/2 inch natural rainfall or by applying water via a sprinkler irrigation system.

NOTE: This product is not registered in California for use on atemoya, carambola, sugar apples, yams and parsnips.

Spot Treatment (Only those crops with ''*'' can be spot treated.)—Applications in growing crops must be made prior to heading of small grains and milo, initial pod set in soybeans, silking of corn, boll opening on cotton.

For forage grasses and forage legumes see ''Spot Treatment'' in the ''Pastures'' section of ''Cropping Systems'' in this label.

For dilution and rates of application using boom or hand-held equipment, see ''Mixing, Additives and Application Instructions'' and ''Weeds Controlled'' sections of this label.

NOTE: FOR FORAGE GRASSES AND FORAGE LEGUMES, NO MORE THAN ONE-TENTH OF ANY ACRE SHOULD BE TREATED AT ONE TIME. FOR ALL OTHER CROPS, DO NOT TREAT MORE THAN 10 PERCENT OF THE TOTAL FIELD AREA TO BE HARVESTED.

, THE CROP RECEIVING SPRAY IN TREATED AREA WILL BE KILLED. TAKE CARE .* TO_AVOID DRIFT OR SPRAY OUTSIDE TARGET AREA FOR THE SAME REASON.

Selective Equipment—This product may be applied through recirculating sprayers, shielded applicators, or wiper applicators in cotton and soybeans. Shielded and wiper applicators may also be used in tree crops and grapes. Wiper applicators may be used in rutabagas, forage grasses and forage legumes, including pasture sites and sorghum milo.

See the ''Selective Equipment'' part of the ''Application Equipment and Techniques'' section of this label for information on proper use and calibration of this equipment.

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Allow at least the following time intervals between application and harvest:

Cotton, Soybeans ,/	aays
Apples, Atemoya, Avocado, Carombola,	_
Cherry, Citrus, Grapes, Pear,	
Rutabagas, Sugar Apple14	days
Stone Fruit	days
Nut Crops21	
Sorghum (milo) *40	days

* Do not use roller applicators. Do not feed or graze treated milo fodder. Do not ensile treated vegetation.

ABPARAGUS

When applied as directed for ''Cropping Systems'' under the conditions described, this product controls weeds listed on this label in asparagus.

For specific rates of applications and instructions for control of various annual and perennial weeds, see the ''Weeds Controlled'' section of this label.

Prior to Crop Emergence—Apply this product prior to crop emergence for the control of emerged labeled annual and perennial weeds. DO NOT APPLY WITHIN A WEEK BEFORE THE FIRST SPEARS EMERGE.

Spot Treatment—Apply this product immediately after cutting, but prior to the emergence of new spears. Do not treat more than 10 percent of the total field area to be harvested. Do not harvest within 5 days of treatment.

Postharvest—Apply this product after the last harvest and all spears have been removed. If spears are allowed to regrow, delay application until ferns have developed. Delayed treatments should be applied as directed or shielded spray in order to avoid contact of the spray with ferns, stems or spears. Direct contact of the spray with the asparagus may result in serious crop injury.

NOTE: Select and use recommended types of spray equipment for postemergence postharvest applications. A directed spray is any application where the spray pattern is aligned in such a way as to avoid direct contact of the spray with the crop. A shielded spray is any application where a physical barrier is positioned and maintained between the spray and the crop to prevent contact of spray with the crop.

BERRIES AND SMALL FRUITS

For cranberries, apply after fruit set and no later than 30 days before harvest.

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For other berries, apply as a preplant broadcast application, or as a directed spray or wiper application post-planting.

Wiper applicators may be used in cranberries in accordance with instructions in this section.

See ''General Information'' and ''Mixing, Additives and Application Instructions'' sections of this label for essential product performance information.

See the ''Selective Equipment'' part of the ''Application Equipment and Techniques'' section of this label for information on recommended use and calibration of this equipment.

For wick or other Wiper Applicators—Mix 1 gallon of this product in 4 gallons of water to prepare a 20 percent solution. Apply the solution to emerged weeds. Apply after cranberry fruit set and no later than 30 days before harvest.

In severe infestations, reduce equipment ground speed to ensure that adequate amounts of this product are wiped on the weeds. A second treatment in the opposite direction may be beneficial.

Do not permit herbicide solution to contact desirable vegetation, including green shoots, canes, or foliage.

FALLOW AND REDUCED TILLAGE SYSTEMS

FOR AERIAL APPLICATION IN CALIFORNIA, REFER TO SUPPLEMENTAL LABEL.

Use this product in fallow and reduced tillage systems for control of annual weeds prior to emergence of crops listed in this label. Refer to the ''Weeds Controlled'' section of this label for specific rates and instructions. This product may be applied using ground or aerial spray equipment. See the ''Application Equipment and Techniques'' section of this label for instructions.

TANK MIXTURES

MON-35085 plus BANVEL plus NONIONIC SURFACTANT

MON-35085 plus 2,4-D AMINE plus NONIONIC SURFACTANT

MON-35085 plus GOALTA
plus NONIONIC SURFACTANT

DO NOT APPLY BANVEL, OR 2,4-D AMINE TANK MIXTURES BY AIR IN CALIFORNIA.

(CAUTION!, 7.7%, Sec.3)

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The additions of Banvel in a mixture with this product may provide short-term residual control of selected weed species. Some crop injury may occur if Banvel is applied within 45 days of planting. Refer to the Banvel and 2,4-D labels for cropping restrictions and other use instructions.

MON-35085 plus Goal Tank Mixtures

This product alone or in tank mixtures with Goal plus 0.5 to 1 percent nonionic surfactant by total spray volume will provide control of those weeds listed below.

Make applications when weeds are actively growing and at the recommended stages of growth. Avoid spraying when weeds are subject to moisture stress, when dust is on the foliage or when straw canopy covers the weeds.

MON-35085@ 12 oz/acre

Wheat	18"*
Barley	12"
Bluegrass, annual	6"
Barnyardgrass	6"
Rye	6"

MON-35085 16 oz/acre

Annual grasses at left plus:

Ryegrass,	
annual	6"
Chickweed	6"
Groundsel	6"
Marestail	6"
Rocket, London	6"
Shepherdspurse	6"
Crabgrass	12"
Johnsongrass,	
seedling	12"
Lambsquarters	12"
Oats, wild	12"
Pigweed, redroot	12"
Mustards	12"

MON-35085 12 oz/acre

MON-35085 16 oz/acre

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(CAUTION), 7.7%, Sec.3)

GOAL** 2 to 4 oz/acre

Shepherdspurse

GOAL** 2 to 4 oz/acre

Shepherdspurse

12"

Annual grasses a plus:	above	Annual weeds above plus:	
Cheeseweed,		Cheeseweed,	
common	3"	соддол	6"
Chickweed	3"	Groundsel	6"
Groundsel	311	Chickweed	12"
Rocket, London	· 6"	Rocket, London	12"

^{*} Maximum height or length in inches.

These recommended tank mixtures may be applied using ground or aerial spray equipment. Refer to the ''Weeds Controlled'' section of this label for specific rates and instructions.

TMGoal is a trademark of Rohm and Haas Company.

AID TO TILLAGE

This product, when used in conjunction with preplant tillage practices, will provide control of downy brome, cheat, volunteer wheat, tansy mustard and foxtail. Apply 8 fluid ounces of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre. Make applications when weeds are actively growing and before they are 6 inches in height. Application must be followed by conventional tillage practices no later than 15 days after treatment and before regrowth occurs. Allow at least 1 day after application before tillage. Tank mixtures with residual herbicides may result in reduced performance.

PASTURES

· Apply this product prior to planting forage grasses and legumes.

Pasture or Hay Crop Renovation—When applied as a broadcast spray, this product controls the annual and perennial weeds listed in this label prior to planting forage grasses or legumes. Remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting.

spot Treatment-When applied as a spot treatment as recommended, this product controls annual and perennial weeds listed in this label which are growing in pastures, forage grasses and forage legumes composed of bahiagrass, bermudagrass, bluegrass, brome, fescue, orchardgrass, ryegrass, timothy, wheatgrass, alfalfa or clover.

(CAUTION!, 7.7%, Sec.3)

^{**} Use the higher rate when weeds approach maximum recommended height or stands are dense.

Wiper Application—When applied as directed, this product controls or suppresses the weeds listed under ''Wiper Applicators'' in the ''Selective Equipment'' section of this label.

For spot treatment and wiper application, apply in areas where the movement of domestic livestock can be controlled. No more than one-tenth of any acre should be treated at one time. Further applications may be made in the same area at 30 day intervals. Remove domestic livestock before application and wait 14 days after application before grazing livestock or harvesting.

SUGARCANE

When applied as directed for ''Cropping Systems'', under the conditions described, this product controls those emerged annual and perennial weeds listed on this label growing in or around sugarcane or in fields to be planted to sugarcane. This product will also control undesirable sugarcane.

NOTE: Where repeat treatments are necessary, do not exceed a total of 10.6 quarts of this product per acre per year. Do not apply to vegetation in or around ditches, canals or ponds containing water to be used for irrigation.

Broadcast Treatment-Apply this product in 10 to 40 gallons of water per acre on emerged weeds growing in fields to be planted to sugarcane.

For specific rates of application and instructions for control of various annual and perennial weeds, see the ''Weeds Controlled'' section of this label.

For removal of last stubble or ration cane, apply 4 to 5 quarts of this product in 10 to 40 gallons of water per acre to new growth having at least 7 or more new leaves. Allow 7 or more days after application before tillage.

Spot Treatment in or Around Sugarcane Fields—For dilution and rates of application using hand-held equipment, see ''Mixing, Additives and Application Instructions'' and ''Weeds Controlled'' sections of this label.

For control of volunteer or diseased sugarcane, make a 1 percent solution of this product in water and spray to wet the foliage of vegetation to be controlled.

NOTE: When spraying volunteer or diseased sugarcane, the plants should have at least 7 new leaves.

Avoid spray contact with healthy cane plants since severe damage or destruction may result.

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Do not feed or graze treated sugarcane forage following application.

MINIMUM TILLAGE SYSTEMS Tank Mixtures CORN AND SOYBEANS

When applied as recommended under the conditions described, these tank mixtures control many emerged weeds, and give preemergence control of many annual weeds when corn or soybeans will be planted directly into a cover crop, established sod, or in previous crop residues.

Refer to specific product labels for crop rotation restrictions and cautionary statements of all products used in these tank mixtures. For mixing instructions, see the ''Mixing, Additives and Application Instructions'' section of this label.

CORN

•	MON-35085 plus LASSO®	•
•	MON-35085 plus LASSO plus ATRAZINE	-
•	MON-35085 plus LASSO plus BLADEX	•
•	MON-35085 plus LASSO plus SIMAZINE	
•	MON-35085 plus ATRAZINE plus SIMAZINE	•
	SOYBEANS	
•	MON-35085 plus LASSO®	
•	MON-35085 plus LASSO plus LOROX/LINURON	•
•	MON-35085 plus LASSO plus LEXONETM	•
.	MON-35085 plus LASSO plus SENCORTM	•
	these tank mixtures in 10 to 40 gallons of water per a	

Apply these tank mixtures in 10 to 40 gallons of water per acre after planting or during planting in such manner that the planter does not disturb the treated soil. Do not apply these mixtures after crop emergence.

When tank mixing with residual herbicides, add an agriculturally approved nonionic surfactant at 0.5 to 1 percent by volume of spary solution.

REDUCED CONTROL MAY RESULT IF THIS PRODUCT IS USED IN TANK MIXTURES CONTAINING FLUID FERTILIZERS.

(CAUTION1, 7.7%, Sec.3)

CONTROL OF EMERGED WEEDS

Annual Weeds—Apply to actively growing grasses and broadleaf weeds. Use 1 quart of this product per acre in these tank mixtures if weeds are less than 6 inches tall. If weeds are over 6 inches tall, apply 1.5 quarts of this product per acre. For emerged annual weeds controlled, see the ''Weeds Controlled'' section of this label.

Perennial Weeds—At normal application rates in minimum tillage systems, perennial weeds may not be at the proper stage of growth for control. See the ''General Information'' section of this label for the proper stage of growth for perennial weeds.

Use of 2 to 4 quarts of this product per acre in these tank mixtures, under these conditions provides top kill and reduces competition from many emerged perennial grass and broadleaf weeds. For emerged perennial weeds controlled, see the ''Weeds Controlled'' section of this label.

To obtain the desired stage of growth, it may be necessary to apply this product alone in the late summer or fall and then follow with a label-approved, seedling weed control program at planting.

NOTE: When using these tank mixtures, do not exceed 4 quarts of this product per acre.

USE OF THESE TANK MIXTURES FOR BERMUDAGRASS OR JOHNSONGRASS CONTROL IN MINIMUM TILLAGE SYSTEMS IS NOT RECOMMENDED. For bermudagrass control, follow the instructions under ''Control of Perennial Weeds'' section of this label and then use a label-approved, seedling weed-control program in a minimum tillage or conventional tillage system. For Johnsongrass control, follow the instructions under ''Control of Perennial Weeds'' section of this label, and then use a label-approved seedling weed-control program with conventional tillage.

The following are labeled ranges for the recommended preemergence herbicides:

# 2	RATE	S/ACRE
PRODUCT	(QUARTS)	(POUNDS)
, ∤ La sso	2 to 4	•
Atrazine 4L	1 to 2	•
Atrazine 80WP	•	1.25 to 2.3
Atrazine 90DF Bladex 4L	•	1.1 to 2
Bladex 4L	1 to 2.2	•
Bladex 90DF	•	0.7 to 3.3
Simazine 4L	1 to 2.2	•
Simazine 80WP	•	1.25 to 2.75
(CAUTION!, 7.7%, Sec.3)	10	(9/13/90)

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Linuron 4L 0.5 to 1.5 •

Lorox DF • 0.75 to 3

Lexone 4L or

Sencor 4F 0.25 to 0.75 •

Lexone or

Sencor 75DF • 0.33 to 1

Read and carefully observe the label claims, cautionary statements, rates and all other information on the labels of all products. Use according to the most restrictive label directions for each product in the mixture.

®Lasso is a registered trademark of Monsanto Company.

TMBladex and TMLexone are trademarks of E. I. du Pont de Nemours and Company.

TMSencor is a trademark of the parent company of Farbenfabriken Bayer GmbH, Leverkusen.

PREHARVEST APPLICATIONS

When applied as directed under the conditions described, this product controls annual and perennial weeds listed on this label prior to the harvest of COTTON.

Weed Control—For specific rates of application and instructions for control of various annual and perennial weeds, see the ''Weeds Controlled'' section of this label.

Broadcast Applications—This product may be applied using either aerial or ground spray equipment. For ground applications with broadcast equipment, apply this product in 10 to 40 gallons of water per acre. For aerial applications, apply this product in 3 to 15 gallons of water per acre.

To control Johnsongrass using multiple nozzle-directed spray equipment, apply 1 quart of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 10 to 20 gallons of water per acre. Ensure complete coverage.

For partial control of field bindweed, apply one quart of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 40 gallons of water per acre. Apply when bindweed is actively growing and 12 inches or greater in length. Reduced performance may result if bindweed is under drought stress.

Tank Mixtures

MON-35085 plus Def™ 6

MON-35085 plus Folex

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When applied as recommended under the conditions described, these tank mixtures control annual and perennial weeds listed on this label prior to the harvest of cotton. For application guidelines, precautions and defoliant rates, refer to the supplemental label for cotton harvest aid.

Timing of Application-Apply this product or these tank mixtures for preharvest weed control after 60 percent of the cotton bolls have opened.

NOTE: DO NOT APPLY TO CROPS GROWN FOR SEED. Allow a minimum of 7 days between application and harvest.

Do not feed or graze treated cottonseed forage or hay following preharvest applications.

™Def is a trademark of Mobay Chemical Corporation.

TMFolex is a trademark of Rhone-Poulenc, Inc.

TREE AND VINE CROPS

This product is recommended for weed control in established groves, vineyards, or orchards, or for site preparation prior to transplanting crops listed in this section. Applications may be made with boom equipment, CDA, shielded sprayers, hand-held and high-volume wands, lances, or orchard guns, or with wiper applicator equipment, except as directed in this section. See the ''Application Equipment and Techniques'' section of this label for specific information on use of equipment.

When applying this product, refer to the ''Weeds Controlled'' section of this label for recommended rates to be used.

NOTE

Repeat treatments may be necessary to control weeds originating from underground parts of untreated weeds or from seeds. This product does not provide residual weed control. For subsequent weed control, follow a program using residual herbicides or use repeated applications of this product. Do not apply more than 10.6 quarts of this product per acre per year.

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE SOLUTION, SPRAY, DRIFT, OR MIST WITH FOLIAGE OR GREEN BARK OF TRUNK, BRANCHES, SUCKERS, FRUIT, OR OTHER PARTS OF TREES OR VINES. CONTACT OF THIS PRODUCT WITH OTHER THAN MATURED BROWN BARK CAN RESULT IN SERIOUS CROP DAMAGE.

AVOID PAINTING OUT STUMPS WITH THIS PRODUCT AS INJURY RESULTING FROM ROOT GRAFTING MAY OCCUR IN ADJACENT TREES.

Reduced control may result when applications are made to annual or perennial weeds that have been mowed, grazed or cut and have not been allowed to regrow to the recommended stage for treatment.

For specific rates of applications and instructions, see the ''Weeds Controlled'' section of this label.

TANK MIXTURES TREE AND VINE CROPS

When applied as a tank mixture, this product provides control of the emerged annual weeds and partial control of the emerged perennial weeds listed in this label. The following residual herbicides will provide preemergence control of those weeds listed in the individual product labels.

	MON-35085 plus GOALTM 1.6E	
_	MON-35085 plus KARMEX TM DF	_
•	MON-35005 PIUS KARMEZ DE	•
·	MON-35085 plus KROVAR TM I	=
-	MON-35085 plus KROVAR ^{IM} II	•
	MON-35085 plus SIMAZINE, PRINCEP CALIBER TM 90	-
•	MON-35085 plus 8IMAZINE 4L	
•	MON-35085 plus SIMAZINE 80W	-
-	MON-35085 plus SOLICAM™ 80DF	-
•	MON-35085 plus SURFLANTM AS	
•	MON-35085 plus SURFLAN 75W	•
•	MON-35085 plus SIMAZINE (80W, or 4L, or PRINCEP CALIBER 90) plus SURFLAN (AS or 75W)	•
• 7	MON-35085 plus GOAL (1.6E) plus SURFLAN (AS or 75W)	•
, =	MON-35085 plus GOAL (1.6E) plus SIMAZINE (80W, or 4L, or PRINCEP CALIBER 90)*	•
•	MON-35085 plus GOAL (1.6E) plus SURFLAN (AS or 75W) plus simazine (80W, 4L, or PRINCEP Caliber 90)	-

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*See the MON-35085 plus Goal plus simazine tank mixturesection below for specific use instructions.

When tank-mixing with residual herbicides, add an agriculturally approved nonionic surfactant at 0.5 to 1 percent by volume of spray solution.

Do not apply these tank mixtures in Puerto Rico.

CONTROL OF EMERGED WEEDS

Annual Weeds-Apply 1 quart per acre of this product in these tank mixtures, when weeds are less than 12 inches tall. For weeds greater than 12 inches tall, apply 1.5 quarts per acre.

Perennial Weeds—For partial control of perennial weeds using these tank mixtures, apply 2 to 5 quarts per acre of this product. Follow the recommendations in the ''Weeds Controlled'' section of this label for stage of growth and rate of application for specific perennial weeds.

PREEMERGENCE WEED CONTROL

The following are the labeled rates for the recommended residual herbicides:

PRODUCT	RATE/ACRE
Goal 1.6E	1.25 to 5 qts.
Karmex DF	2 to 8 lbs.
Krovar I	2 to 8 lbs.
Krovar II	2 to 8 lbs.
Simazine, Princep Caliber 90	1.1 to 10.6 lbs.
Simazine, 80W	1½ to 12 lbs.
Simazine 4L	2 to 9.6 qts.
Solicam 80DF	2 to 5 lbs.
Surflan AS	2 to 4 qts.
Surflan 75W	2-2/3 to 5-1/3 lbs.

NOTE: These residual herbicides may provide post-emergence activity on certain annual weed species.

Refer to the individual product labels for specific crops, rates, geographical restrictions and precautionary statements.

Read and carefully observe the label claims, cautionary statements, rates and all other information on the labels of all products.

For specific rates of application and instructions see the ''Weeds Controlled'' section of this label.

MON-35085 plus GOAL

(CAUTION!, 7.7%, Sec.3)

MON-35085 alone and MON-35085 plus Goal tank mixtures will control or suppress annual weeds listed below.

Apply the recommended rates of MON-35085 or MON-35085 plus Goal tank mixtures plus 0.5 to 1 percent nonionic surfactant by spray volume in 3 to 10 gallons of water per acre. Apply when weeds are actively growing and less than 6 inches in height. If weeds are under drought stress, irrigate prior to application.

RECOMMENDED RATES AND WEEDS CONTROLLED

C = Control			~ s =	Suppression
	мом	-350	85 rate	MON-35085+Goal
WEEDS			acre)	(fl oz/acre)
SPECIES	8	12	16	12 + 4 to 16
				<u>-</u>
Bluegrass, annual	С	С	С	С
Barley	С	С	С	С
Cheeseweed,	S	S	S	C
	3	3	. ·	C
common (3")	c	c	6	С
Rocket, London	S	S	C	
Shepherdspurse	S	S	C	C .
Chickweed	s	С	C	C .
Fleabane,	S	С	C	С
flaxleaf	_	_	_	
Red Maids	S	С	C	С
				16 + 4 to 16
			. <u></u>	
Barnyardgrass	s	C	С	С
Cheeseweed,	S	S	S	С
common (3-6")				
Crabgrass	S	S	С	С
Groundsel,	S	S	С	С
COMMON				
Junglerice	S	S	С	С
Lambsquarters	S	S	С	С
Marestail	S	S	С	С
Pi@weed,	s	S	С	С
redroot				
Ryegrass,	S	S	С	С
common				
Sowthistle,	S	S	С	С
annual	_	_	_	
Purslane,	S	S	С	С
common	-	_	-	_
Nettle,	S	S	С	С
stinging	_		_	S
Filaree	S	S	S	S

MON+35085 plus GOAL plus SIMAZINE

(California only)

MON-35085 may be tank-mixed with Goal plus simazine for broadspectrum postemergence and preemergence control. Refer to the following table for approved crops and rate ranges for each product in this tank mix. Refer to the individual product labels for weeds controlled, geographical restrictions, precautionary statements and specific use rates.

	•	RATE RANGES*	•
CROP	MON-35085 (quarts)	GOAL + 1.6E + (quarts)	SIMAZINE 80W** (pounds)
Grapes Almond	1 to 1.5 1 to 1.5		2.5 to 5 1.25 to 2.5

Use equivalent rate of Princep Caliber 90 or simazine 4L.

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**Rate dependent on soil type and weeds present.

MON-35085 plus GOAL plus SIMAZINE/SURFLAN

This product plus Goal, applied alone or as a three-way or four-way with simazine and/or Surflan, will provide postemergence control of those weeds listed below when applied as recommended.

Refer to individual product labels for preemergence rates, weeds controlled, precautionary statements and other important information.

Apply these tank mixtures in 3 to 40 gallons of water. Add 0.5 to 1 percent nonionic surfactant by total spray volume to the spray solution.

WEEDS CONTROLLED

Weed Species	Maximum Height (inches)	MON-35085 + Goal (quarts/acre)
; Barley, } wild	4	0.5 to 1 + 0.5 to 5
wild Bluegrass, annual	4	0.5 to 1 + 0.5 to 5
Cheeseweed, common	4	0.5 to 1 + 0.5 to 5

(CAUTION!, 7.7%, Sec.3)

^{*}Rate dependent on weeds present.

Chickweed,	4	0.5 to 1 + 0.5 to 5
Flaxleaf, fleabane	4	0.5 to 1 + 0.5 to·5
Groundsel,	4	0.5 to 1 + 0.5 to 5
Marestail	4	0.5 to 1 + 0.5 to 5
Pineappleweed	4	0.5 to 1 + 0.5 to 5
Rocket, London	4	0.5 to 1 + 0.5 to 5
Shepherdspurse	4	0.5 to 1 + 0.5 to 5
Sowsthistle, annual	4	0.5 to 1 + 0.5 to 5
Cheeseweed,	12	1 to 1.5 + 1 to 5
Nettle, stinging	12	1 to 1.5 + 1 to 5
Filaree	12	1 to 1.5 + 1 to 5

[™]Solicam is a trademark of Sandoz, Inc.

PERENNIAL GRASS SUPPRESSION ORCHARD FLOORS

When applied as directed, this product will suppress vegetative growth as indicated below.

Bahiagrass

This product will provide significant inhibition of seedhead emergence and will suppress vegetative growth for a period of approximately 45 days with a single application and approximately 120 days with sequential applications. Apply this product 1 to 2 weeks after full green-up or after mowing to a uniform height of 3 to 4 inches. Applications must be made prior to seedhead emergence. Apply 6 fluid ounces of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 10 to 25 gallons of water per acre.

Sequential applications of this product plus nonionic surfactant may be made at approximately 45-day intervals to extend the period of seedhead and vegetative growth suppression. For continued seedhead suppression, sequential applications must be made prior to seedhead emergence. Apply no more than 2 sequential applications per years. As a first sequential application, apply 4 fluid ounces of this product plus nonionic surfactant. A second sequential application of 2 to 4 fluid ounces may be made approximately 45 days after the last application.

, Bermudagrass

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For burndown, apply 1 to 2 quarts of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 20 gallons of water per acre. Use 1 quart of this product in 3 to 20

(CAUTION!, 7.7%, Sec.3)

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gallons of water per acre east of the Rocky Mountains. Use 1 to 2 quarts of this product in 3 to 10 gallons of water per acre west of the Rocky Mountains. Use this treatment only if reduction of the bermudagrass stand can be tolerated. When burndown is required prior to harvest, allow at least 21 days to ensure sufficient time for burndown to occur.

Suppression only (east of the Rocky Mountains)—Apply 6 to 16 fluid ounces plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 20 gallons of water per acre no sooner than 1 to 2 weeks after full green-up. Mowing prior to application may occur provided a minimum height of 3 inches is maintained. Rates of 6 to 10 fluid ounces plus nonionic surfactant should be used in shaded conditions or where a lesser degree of suppression is desired. Sequential applications may be made when regrowth occurs and bermudagrass injury and stand reduction can be tolerated.

Suppression only (west of the Rocky Mountains)—Apply 16 fluid ounces of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre up to 6 inches in height and no sooner than 1 to 2 weeks after full green-up. Mowing prior to application may occur provided a minimum height of 3 inches is maintained. Sequential applications may be made when regrowth occurs and bermudagrass injury and stand reduction can be tolerated.

Cool Season Grass Covers

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For suppression of tall fescue, fine fescue, orchardgrass and quackgrass, apply 8 fluid ounces of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 10 to 20 gallons of water per acre. For best suppression, add ammonium sulfate to the spray solution at a rate of 2 percent by weight or 17 pounds per 100 gallons of spray solution.

For suppression of Kentucky bluegrass covers, apply 6 fluid ounces of this product plus nonionic surfactant. Do not add ammonium sulfate.

For best results, mow cool-season grass covers in the spring to even their height and apply the recommended rate of this product 3 to 4 days after mowing. Avoid treating cool season grass covers under poor growing conditions, such as drought stress (drip irrigation), disease or insect damage.

LOW VOLUME APPLICATION (FLORIDA AND TEXAS)

For burndown or control of listed perennial weeds, apply the recommended rates of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 20 gallons of water per acre. Where weed foliage is dense, use 10 to 20 gallons of water per acre.

(CAUTION:, 7.7%, Sec.3)

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Apply when weeds are actively growing and at the growth stages listed in the ''Perennial Weeds Controlled'' section of this label. If perennial weeds are mowed, allow weeds to regrow to the recommended stage of growth.

S = Suppression PC = Partial control B = Burndown C = Control

WEED		MON-35085 RATE PER ACRE		
SPECIES	1 qt	2 qts	3 qts	5 qts
Bermudagrass	В	•	PC	c .
Guineagrass Texas and Florida Ridge	В	С	С	С
Florida Flatwoods	•	В	С	С
Paragrass	В	C .	С	С
Torpedograss	S	•	PC	С

TREE CROPS

Citrus*: citron, grapefruit, kumquat, lemon, lime, orange, tangelo, tangerine.

Nuts**: almond, filbert, macadamia, pecan, pistachio, walnut.

Pome Fruit*: apple, pear.

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Stone Fruit***: apricots, cherries, nectarines, olives, peaches,
plums/prunes.

For cherries, any application equipment listed in this section may be used in all states.

For citron and olives, apply as a directed spray only.

Any application equipment listed in this section may be used in apricots, nectarines, peaches, and plums/prunes growing in Arizona, California, Colorado, Idaho, Kansas, Kentucky, New Jersey, North Dakota, Oklahoma, Oregon, Texas, Utah, and Washington, except for peaches grown in the states specified in the following paragraph. In all other states use wiper equipment only.

For PEACHES grown in Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, South Carolina, and Tennessee only, apply with a shielded boom sprayer or shielded wiper applicator which prevents any contact of this product with the foliage or bark of trees. Apply no later than 90 days after first bloom. Applications made after this time may result in severe damage. Remove suckers and low hanging limbs at least 10 days prior to application. Avoid applications near trees with recent pruning wounds or other mechanical injury. Apply only near

(CAUTION1, 7.7%, Sec.3)

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trees which have been planted in the orchard for 2 or more years. EXTREME CARE MUST BE TAKEN TO ENSURE NO PART OF THE PEACH TREE IS CONTACTED.

Tropical Fruit: acerola, atemoya*, avocado*, banana (plantains), carambola*, coffee****, figs*, guava, mango*, papaya, sugar apple*, tea. Allow a minimum of 1 day between last application and harvest of guava and papaya. In coffee and banana, delay applications 3 months after transplanting to allow the new coffee or banana plant to become established.

NOTE:

- * Allow a minimum of 14 days between last application and harvest.
- ** Allow a minimum of 21 days between last application and harvest of these crops.
- *** Allow a minimum of 17 days between last application and harvest.
- ****Allow a minimum of 28 days between last application and harvest.

VINE CROPS

Kiwi Pruit*

Grapes: * Any variety of table, wine, or raisin grape may be treated with any equipment listed in this section.

In the northeast and Great Lakes regions, applications must be made prior to the end of bloom stage of grapes to avoid injury.

- * Applications should not be made when green shoots, canes, or foliage are in the spray zone.
- * Allow a minimum of 14 days between last application and harvest.

CALIFORNIA

MON-35085 herbicide has been approved by the U.S. Environmental Protection Agency and by the state of California for the uses, crops and sites listed in this label. With the exception of these items, this booklet contains the material approved by California.

These use conditions, crops and sites may not be treated with this product in California until approval is received:

Cool season truf growth regulation

EPA Reg. No. 524-XXX

This product has been approved for use in California except as stated otherwise on page 122.

In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000.

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MONSANTO COMPANY AGRICULTURAL PRODUCTS ST. LOUIS, MISSOURI, 63167 U.S.A. Dr. Kevin F. Cannon Monsanto Company 700 14th St., NW Washington, DC 20005

Dear Dr. Cannon:

Subject: Mon-35085

EPA File Sym. 524-UUL

Your submission dated September 19, 1990

with registration under the Federal Insecticide, Fungicide, and Rodenticide Act is not acceptable for the following reasons:

- l. The data which was submitted indicates that the signal word must be "WARNING". Please delete the signal word "CAUTION" from the label. The precautionary statements must be revised to include "Causes substantial but temporary eye injury. Harmful if inhaled. Do not get in eyes or breathe spray mist or get in or on clothing. Wear goggles, race shield or safety glasses. Wash throughly with soap and water after handling. Remove contaminated clothing and wash before reuse."
- 2. The staement of practical treatment must be revised as follows:

"If in eyes, hold eyelids open and frush with plenty of water.

If swallowed, drink promply a large quantity of milk, egg white, or gelatin in solution. If these are not available, drink large quantities of water.

If inhaled, remove victim to fresh air, if not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention."

- 3. This will acknowledge receipt of your Confidential Statement of Formula. This information is acceptable and will be placed in our file for your product.
- 4. The acute oral, dermal, inhalation toxicity, primary dermal irritation and dermal sensitization studies are acceptable as quideline data and support the product.
- Of the seven eye irritation studies, two are considered guideline data, three are considered core minimum data, and two are considered supplementary data. Six of the studies were conducted using irrigation of the eyes at 24 hrs. but the reasons necessitating this are not given. The guidelines indicate that "at 24 hrs. a washout may be used if considered appropriate"
- a. (SB89300) The initial study performed at Springborn Laboratories using three animals is considered supplementary data only because sufficient number of animals were not used.
- did not specify any methodology. It stated that at 24 hrs. 5/6 animials had areas of barely perceptible consal dullness. There is no indication of confirmity findings with fluorescein stain. The number of males and females used is not specified, rather it is stated that six animals in "mixed sex" were used. The source of the animals and the age is not given. There is no statement of quality assurance. 40 CFR ChI (7-1-39) 160.185 subpart H states that each study report must include:
 - \$7- a description of the test system used. the sex, body weight range, source of supply, species, strain and substrain and age of animals and procedure used for identification.
- 1 #8- a description of the dosage, dosage regimen and route of administration.
- , #9- a description of all circumstances that may have reffected the quality and integrity of the data.
- #11- the statement prepared and signed by the quality assurance unit as describe in 160.35 (b)(7). The study did not comply with all or parts of the preceeding requirements.

- C. SE90+003- The second study performed at Springborn Labs is considered minimum data because the study was not continued beyond 7 days as there was opacity in 2/6 animals at that time. If contined beyond 7 days it would have shown that eye damage was reversed by day 21. The study is acceptable support for the product.
- D. BD90-123- The study performed at Bio/Dynamics is considered core minimum data for the following reasons:
- 1. Positive fluorescein staining signifies opacity and must be recorded as such.
- 2. Ulceration is considered part of opacity according to Draize, and must be included in opacity and not treated as a separate entity.

Absence of staining at 72 hrs. does not necessarily mean healing, it does not mean healing at later intervals either, as cornea heals from surface down and lesion can be present without staining. Ulceration is severe ocular lesion and does not nromally heal within 48 hrs.

E. WIL 90-091- The study performed at WIL Research used a pen light to evaluate the eye irritation. This is not adequate source of Fight it only make testing are present, particularly if fluorescein confirmation of findings were delayed until 72 hrs. Small lesias can and will heal within that period of time. Also, the eyes should have been washed with saline rather than tap water with contaminants and irritants.

The presentation of data from six different sources does not necessarily mean that the finding of opacity at 7 days is invalid or negligible. Particularly considering that all tests were not performed in the identical manner:

- 1. All were evaluated by different people with various backgrounds of training and all were subjective 40 some extent.
- 2. No justification is given for washing the eyes at 24 hrs. The eyes normally are irrigated at 24 hrs. while examination by flurescein is made. According to guidelines washing at 24 hrs. is acceptable only if it is found to be necessary. The presence of opacity inspite of washing at 24 hrs. makes the opacity more significant.

- 3. The source of light was not uniform. Adequate and proper illumination is necessary for accurate evaluation.
- 4. Fluorescein was not always used at 24 hrs. to confirm findings.

Unexpected findings of opacity in the eyes of two rabbits at 7 days is not unusual nor warrents repeated testing at other facilities. A third test a Springborn would have been nor enlightening and significant because so many variables would not have been introduced. No inconsistancies are found between the two studies at Springborn. The first three animals did not show opacity at 7 days during the initial study, however, 1/3 or 2/6 showed ipacity in the second. This in not that far removed from the original findings. The study that showed 2/6 opacity at 7 days is a valid study and must be taken into account as long as it is not demonstrated why the unexpected results from a test should not be accepted regardless of subsequent studies not showing opacity at 7 days. If the total number of animals tested (33) show 6% (2/33) of animals with ipacity at 7 days, the probability of eye irritation is present, therefore the toxicity of eye irritancy must be considered to be in catagory II.

Because of the importance of your application, we would like to have your reply within a days to flower. Let you need additional time to reply, or if you have any further questions concerning this letter, please contact me at (703) 557-1800.

Sincerely yours,

Robert J. Taylor Product Manager 25 Fungicide-Herbicide Branch Registration Division (H7505C)

RD:RTaylor:eja:12/20/90:557-1800

Monsanto

Monsanto Company Suite 1100 700 14th Street, N.W. Washington, D.C. 20005

September 19, 1990

Document Processing Desk (APPL)
Office of Pesticide Programs - H7504C
U.S. Environmental Protection Agency
1921 Jefferson Davis Highway
Crystal Mall #2, Room 226A
Arlington, Virginia 22202

ATTENTION: Robert J. Taylor

Product Manager (25)

SUBJECT: Request for Registration of a New Product Containing

Glyphosate: MON-35085 herbicide.

Dear Sir:

Roundup herbicide (EPA Reg. No. 524-308), a formulation containing the isopropylamine salt of glyphosate, is registered for use in both agricultural and non-agricultural sites using a variety of application techniques.

For the past several years Monsanto has been working on the development of a new liquid formulation of glyphosate which would reduce the eye irritancy normally found with Roundup. MON-35085 herbicide is that product.

MON-35085 contains the isopropylamine salt of glyphosate in the same concentration as Roundup (41.0%), but with half the surfactant load. The reduction in surfactant concentration appears to reduce the eye irritation observed in the current Roundup formulation and in our opinion requires a "CAUTION" signal word.

Since the only change in the formulation is the surfactant concentration, all other data necessary to support the registration of glyphosate and the agricultural and non-agricultural uses remain unchanged.

The enclosed eight-volume submission, designated R.D. 1001.

Inert ingredient information may be entitled to confidential treatment

contains product chemistry, acute toxicity, label use instructions and the administrative materials required for the registration of MON-35085. We ask the EPA to approve this submission as quickly as possible.

If you have any questions regarding this request, please contact Dr. Kevin Cannon or me.

Sincerely,

Russell P. Schneider, Ph.D. U.S. and International Registration Director

cc: K. Cannon

I. O'Connor

N. Yates-Parker



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDI	<u>ım</u>				
SUBJECT:	Request To Expedite Review Product Chemistry/Precautionary Label Review for Product Chemistry and Precautionary Label				
	EPA Identification No. 524-UUL - \$384917				
	Submitted to RSB on: 10/31/90 by PM 25				
	DECISION MEMORANDUM				
FROM:	Frank Sanders, Chief Landers 18.4. Fungicide-Herbicide Branch				
ro:	Ferial Bishop, Chief Registration Support Branch				

This is a request to expedite the review for the subject application. We have checked the applicable box(es) which identifies the reviews we wish to be done on an expedited basis.

Product Chemistry Review

At Precautionary Labeling Review

We would appreciate getting these reviews no later than 12/14/90

An expedite is being requested for the following reason(s).

The Agency has data indicating that the precautionary labeling for their registered product should be changed to "Danger". This pending product will replace the formulation which must be re-labeled to "Danger".

TONCUR:

Donald Hall
DATE: 11/21/90 PRODUCT CHEMIST/REVIEWER: MICHAEL J. CLIFFORD
PAGE: OF CONCURRED BY:
COMPANY: MONSANTO COMPANY EPA REG. NO: 524-UUL
PRODUCT NAME: MON 35085 MANUFACTURING PROCESS INFORMATION IS NOT THE DESCRIPTION OF THE PROPERTY OF THE PROPE
TO PH NO: 25 ACTION CODE: EXPEDITE
BACKGROUND: MON 35085 in a reformulation of ROUNDUP HERBICIDE
which contains half the surfactanct load reducing the eye irritation observed in ROUNDUP. ACTIVE INGREDIENT LABEL CLAIM/ LATEST LABEL CLAIM (DATED / /)
GLYPHOSATE, N- (PHOSPHONOETHYL) GLYCINE
IN THE FORM OF ITS ISOPROPYLAMINE SALT (41.0%)

REFERENCES USED:
REFERENCES USED.
FOOD USE () INFETS CLEARED C() D() NON FOOD USE (X)
FOOD USE () INERTS CLEARED C(), D() NON FOOD USE (X) CFR 21 PARTS 170-199 () TOXIC INERTS LIST 1(), 2()
CFR 21 PARTS 170-199 () TOXIC INERTS LIST 1(), 2() COMMENTS:
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COMMENTS: a) In reference to CSF dated 8/16/90, the applicant has not provided the EPA registration number for the technical active ingredient for the isopropylamine salt of glyphosate. NOTE TO PM: In a telephone conversation on 11/20/ heticen Robert Street of Monsanto Co. and M. Clifford, the applicant hagreed to submit a revised CSF based on EPA REG. NO. 524-333 as the technical source product for the isopropylamine salt of glyphosate. (4) like product chemistry data are acceptable and comply with the requirements of 40 CFR Parts 158.150 through 158.190.
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

PESTICIDES AND TOXIC SUBSTANCES

MEMORAND	UM	
SUBJECT:	EPA Reg. No.	/File Symbol 524-UUL
	Glyphos	ate/MON-35085 Herbicide
FROM:	Registration	carian of 11/14/90 Ty Review Section = 12/14/90 Support Branch Division (H75-05C)
TO:	Robert To Fungicide Registration	ylor/Vickie Walters (PM 25) - Herbicide 1 Division (H75-05C)
		Monsanto Company
		Suite 1100
		700 14th street
		Washington, D.C. 20005
FORMULAT	ION FROM LABEL	
	ive Ingredient	(phosphonomethyl) isopropylamin salt 41.0%
Ine	rt Ingredient(59:09
		Total 100.0%

BACKGROUND: Monsoute	Co. has susmitted Twelve	Etradies :
Support of Their prod	ELE Chlorage MON 320	85 Heabswide
under EPA symbol 524	- UUL. This is claimed	to be an improved,
	ssion of Their product. Ro	
	symbol 524-308. The a	
Them is claimed to be	the perentage of Surfectan	78078 NON 31-085-
	f the amount of surfect and	
	comparison of the in	
	respective CSFs is	
		· .
	MON 35 085	Roundup
Isopropy lamine Soft of	• •	Roundup
	4 3108(46.6-40155)	41.4 (44.50-40.55)
(active installent)	*	

The surfactant used are different but is initiar properties but The difference in the percentage of surfactant in each product

BACKGROUND: 15 W	it as substantially different in
are then the other	er MON 3 TOST CO
	For Round up.
The reduction:	in the percentage of sinfactrit is more
in an effort to redu	ce the eye instation potential and

in an effort to reduce the eye irritation potential and put the new product in a less Toxic catagory. Therefore, seven eye irritancy students are indeeded in the presentation Two of these are conducted in the same laboratories. The fine are performed in fine different laboratories. The teason given for conducting the fine additional ctualies in eye irritancy is That the irritation recorded at the second study was unexpected finding of openity at 7 days in 3/6 animals, in Notes to the review." preceasing the eye reports.

Recommendations

The acute Oral, dermal, I malalian Toxicity, Primary dermal irritation and Dermal sousitization studies are accepted as generaline data and support the product.

OF the seven eye irritation studies Turs are considered quiddine data, Those are considered come minimum data, and Turs are considered supplementary data. Six of the studies were condended using irrigation of the eyes at 24 hrs. best the reasons necessitating. This were not given. The guidelines indicate that "at 24 hours a washout may be used it considered appropriate"

	RECOMMENDATION (Car)
1862	'scothe initial study performed at Spring born Labouratories using
٠.	Three aumals is considered supplementary data only because
	sufficient number of animals were not used.
Y0-C	10-291 - The Study condented at Young or Laboratories did not
	specify any methodology. It stated That at 24 hor 5/6
	animals had areas of barely perceptible correct dullness.
	There is no indication of confirming findings will theresely
	stown. The number of males and females used is not specifical,
	tather it is stated That six animals in "mixedger" were
	used. The source of the animals, the age is not given.
4 .	There is no statement of quality assurance.
i	40CFR CHI (7-1-89) \$ 160.185 subpart H states That
	each study report must include
	#7 - a description of The Test system used The ser, budy weigh
	trange, source of supply, species. Strain + substran + any
	afavirale + procedur used for Identification
	# 8 - a description of the closage, closage regimen + tout of
	cedministration
	# 9 - a description of all circuentances That may have effe
	the quality and integrity of the data
4 -	#11 The statement prepared and riquel by the
	quality assume unit as described in \$160.35 (b)(7)
	The ituely ded not comply with all or parts of the
j	preceeding requirements.
ម័	(- 1

tion of the second of the seco

RECOMMENDATION: Let SB90-003 - The second study performed at Springborn Laboratorio is considered minimum data become The iteraly was no certinued beyond 7 days as There was openity in 3/6 animals attheir Time. If continued beyond I day , I would have shown That eyedamage was reversible. It is assumed That a grade I apacity is reversed by day 21. The theory is acceptable support for the product. BD90-123 The Study performed at Bio/dynamics is considered core minimum data for the tollowing reasons Pasitive fluorescen stainty significe a pasity and must be recorded as Suel Ulcaration is considered part of opacity according to Decize, and must be included in spacity and not Treated as a separate entity. Absence of Staining at 72 hor does not necessarily mean healing, it does not mean healing at later intervals either, as cornen heals from surface down and lesion can be present without staining Ulcerate is severe occident lead on and does not normally bear within 43 lux. Mego-091 the Study performed at WIL Research used pen light to evaluate the eye isotation is not adequate source of light if small lesions are present, particularly if pluorescen confirmation of findings were dolayed until 72 hr. Smallerius

RECOMMENDATION: CEUT
can and will hear within that period of time, Also,
The eyes . Should have been wasked with saline
talen Tean Tap water will possible contaminants
and initals.
The presentation of data from six different
Sources does not necessarily mean That the finding
of opacity at 7 days is invalid or negligible.
Particularly considering That cold Tests were unt
performed in the identical marion!
1- All were revaluated by different people with
vericus background of Training and all wine
subjective to some extent.
2. No justification is given for washing the eggs
at 24 hor. The eyes normally are irrigated at
24600 while examination by fluorescein is movie.
According to genicletines washing at 24 hre is acceptable
only if it is found to be necessary. The presence of
apart inspite of washing at 29 un makes the spacet
more significant.
3. The source of light was not uniform. Adopunte
and proper illumination is necessary for accounte
; evaluation.
4. Fluorescein was not always und at 24 hor W
canfirm findings.
······································

RECOMMENDATION: Cut
Unexpected finding of opacity in the eyes of two
rabbits at 7 days is not unusual non wasterits repeated
Testing at other facilities. A third test at Spring born
would have been more enlightening and right cant
because 20 many variables would not have been
introduced. No inconscitancias are found between
the two studies at Springborn. The first Those arminals
ded not show opacity at 7 days demy the initial theory
however 1/3 or 3/6 showed aparty in the second.
This is not That for removed from the ori final findage.
The study That showed of gracity at ? days is a
The study That showed of oracity at ? days is a valid study and master as long as it is not demonstrated why E
the unexpected results from a text stocaled next be accepted
regardless of subsequent theolies had showing aparity
at 7 days. If the Total number againmals tested (33)
show 6% (2/33) afanimals with opacity at 7 days
The probability of eye initation is present therefore
the Taxicity of Eye intancy ment be considered
to be in Catagory !!.
•
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LABELING:
The signal word is "washing"
The Precautionary statement must include:
Causes substantial but Temporary eye injury.
harmful if inhaled, Do not get in eyes or breater
spraymist or get on clothing, Wear gosses, face
Shield on Safety glasses wash Thoroughly with soop
and water after handling. Remove centaminated
abothing and wash before reuse.
The statement of Practical Treatment musi
include:
If ineyes hold eyelids open and peish with
steady gentle stream of water for 15 minutes
If swallowed - Drive promptly a large quantity of
milk, egg white, of golden solution. If these
are not available diene large quantities of water.
Ef Inhalest remove victim to fresh air, if
not breathing give artificial respiration, prefunda
mouth to mouth, get medical attention.

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DATA PEVIEW FOR ACUTE ORAL TOXICITY TESTING (§8]-])

Product Manager: (35) MPID No.: 4164 23-02 Reviewer: L. Markarian Report Date: 1/14/40
Testing Facility: Springborn Laboratories me, Report No. Sa. 90-191
Author(s): Rusty E. Rush
Species: Rat Sprague Dawley
Age: young adust Observation Days (Post
Weight: 626-2806 Q 203-219 & Exposure): (14); other (15)
Source: Charles River Laboratories. In. Portage Michigan
Test Material: Mon-35085 Lot PIT 9003-1765 [amber liquid] Density 1.065/ml
Quality Assurance (40 CFR \$160.12): included
Conclusion:
1. LD ₅₀ (ma/kq): Males =; Females =; Combined =
2. The estimated LDSQ is Greater Than Socormy/kg
3. Tox. Category: W. Classification: Car Guideline
Procedure (Deviations From \$81-1): Fastedanimals were intulated. Observations
were frequent during the day of intubation and daily Theoster for 14 days, body
weights were recorded on days 1.8,15, CO2 enthausein was used. Necoopsy was
Performed in all accimals
Results:

Reported				
	(NUMBER KILLED/NUMBER TESTED)			
DOSAGE (M3/ka)	Males	Females	Combined	
5000	0/5	0/5	9/10	
			[
		<u> </u>	<u> </u>	
	<u> </u>			
&	 			

Symptomology & Gross Necropsy Findings:

feed tuine stains, dark staining around the facial aroun, diantem, respiratory instrumes, demend artisty, and toward body temperature. Weight loss was observed in one make and two females. Weight gains were normal in the reality The animals. Necropay revealed reduction in adipose tissue in one make and a distendent by trait of one female with gas.

DATA REVIEW FOR ACUTE DERMAL TOXICITY TESTING (\$81-2)

Product Manager: (25) MRID No.: 41423-03 Testing Laboratory: Springhom Laboratory: Springhom Laboratory: Springhom Laboratory: Species: Rat; Springhom Laboratory: Che Species: Rat; Springhom Laboratory: Che Species: 6735 & Communication of the Springhom Laboratory: Che Labora	Hen River L Wt.: c PIT-9003 -	Report Report Note: A series in the series	NO. 58-90-192 . Portage, Hira. Q 234-2478
Summary:			
1. LD_{50} (mg/kg): Males =; 2. The estimated LD_{50} is G_{7} 3. Tox. Category: TV . Cla	Combine cater Than issificat	~ 5000 mg/4	; Females = ;
Procedure (Deviations From \$81-2 dorsum of The rats covered with 8 ply 9 stocking the steere was placed around the waypings were removed the application were frequent enter day of administration recorded in days 1, 8, + 11. Eas entered in all against	Tounk & sec us hite rin	seed with tap	es, A7 24hm aci scillatualet. Objecta whe went man
Results:			
Reported Mor	tality		
DOSAGE ('M% /kg)	(NUMBER Males		BER TESTED) Combined
5000	ω/ <u>ς</u> -	0/(-	6/10
		 	
	• • • • • • • • • • • • • • • • • • • •	-	
		<u> </u>	
-Symptomology & Gross Necropsy Fi			
There was no martality. Symp		•	
puterial on the facial area an	el dermal	motalica "	ex ue site
jet application. en female les	t weight	bit wen d	Lays 1 & 8.
Wecoopery revealed no gooss o			
			
· · · · · · · · · · · · · · · · · · ·			

DATA REVIEW FOR ACUTE INHALATION TOXICITY TESTING (§81-3)

Product Manager: (원도)	Reviewer: L. Markarian
MPID No.: 416423-06	Report Date: \\\\\
Testing Laboratory: Monsant Co. Envi	runnedal Hours law, Report No. Mc -90-171/EHL90073
Author(s): B.R. Dudek	
Species: Rat, Sprague Dawky	Buk old
Sex : 200 2 200	Weight:
Source: Charles River Laboratorio	es, Portage Mideran
Test Material: Mon 35 085 Lat	PIT-9003-1765E amber Lywid
Quality Assurance (40 CER \$160.	12):

Summary:

- 1. LC₅₀ (mg/kg): Males = 3.5 (1.7282 3.9911) mg/L; Females = 2.7 (1.9102 4.3400); Combined = 3.6 (3.1216 3.2716)
- 2. The estimated LC50 is
- 3. Mean Concentration: 1.3, 2.1, 2.9 + 5.3
- 1. Tox. Category: 1 . Classification: Come guideline

Procedure (Deviations From §81-2): The 4 hr exposure was in N.T. University type stainless steel chamber (300 L). Two different septems were used a venerated the Test almosphere. One system The duel flack discriminates system was used from exposure at 1.3 mg/L but not for the other exposures, because of insuffice at chamber concentrations another method was used (FMI pump/nozzle atamizer system) to advise the legion concentrations. The termer system gave a better particle hize performance.

Results:

Peported Mortality

	Exposure Concentration (mg/L)	(NUMBER Males	(ILLED/NUMB Females	ER TESTED) Combined
	1.3	0/5	12/5-	6/10
-	. 2.1	3/5	2/5-	. 4/10
آج	2.9	3/5	2/5-	5/10
7	2,3	5/5-	5/5-	19/10

Symptomology & Gross Necropsy Findings:

The dura flech system placed a Lustein ne budizen in each from The according output was passed Through a posticle size discuminator by a culculy the chamber passing the output through knowled animater and a series of fell of suisotrates within the disciminator impactes the large particle. The nexule atomizes igstem had ant MI thuis meterity pump (Model RP-QV thuis meterity. Inc Crister Bay, NY) that believed the test moder of the injet of 1/4" Iss air obtainising north (spaying Systems) at the reposition chamber. Filtered compressability was delicated to the air north. The test at many here was sampled for determination of concertations using glass impingers at a known take and analyzed by higher chromatography

Particle size a	malyres was	performed is	in an And	usen Co	ثمتعولا	_
Particle size a	م مد خاصد د	ate of 28-29	L/min. =	الص بعقد	, tempe	salin
and viewicaity	were become	hed at 30 mi	unde judeo	τω _α ,		-
Observations a	محسد للصوحد لبر	during expo	Leve-, with	. Linuit ea	el vier	- -
due to leve place	ement uj can	ges in the chan	ber. The	animaio	ننوس	•
observed imm ex	liately follow	uin exposure a	mel daily	for ia a	ays.	•
Body weights						
performaden		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				-
Dose level	MMAD	Standard Deviatu	Particles less than Lec Lung	Meane airthur Lonin	Means Temp	Mean Heardi
1.3 mg/L	٥.4	1.9	7.7%	138.7	247	61-
2-1 mg/L	3,9	1.9	1.6%	(26.3	19.5	79.2
2.9 mg/L	3,4	1.8	2.1%	111. 6	20.1	80.3
5 3 mg/	3.6	1.9	2.3%	102.9	19.7	94.
no symptoms a fur and anim	of Taxicily . A	abored respira	st moterial	wers 2. € 60 2 . E may C	s set y	als
ven covered						_
Animals aven c	overe with	Test malen's	were pille	padive c	.nd sh	- -
laboral respire						-
There were m	e destins at	1.3 mg/c, F	- cu ag thu	anive	ه لارم 	-بوران -
labores repir						
and lad peris	real of perio	wer brown	- ancrust.	ulieu.		_
At 2. 1 mg &					ر در لحق	_
included emaci						ورن
nasal disdaye						
arees and pai						

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AND ADDRESS OF THE PARTY OF THE

at 2.9 mg/L same symptoms were assessed as the
previous group but at a higher intensity and frequency
with the addition of ourlaw opening That last sed to
10 days. Hair loss was observed to persist to the and of the study.
BT 5:3 mg/L all animals died, prior to death. The same
Symptoms observed at 2.1 mg/d 2.9 mg/L were viscerved. Deaths
occurred withen 5 days.
The most prominent absenvation was the corner aparty and
aroperia the survivors. Allowings That surviveel
showed catisfactory gains in body weight.
At recrappy of animals That died abanmalities at
eyes, liver, buyos hasal tensinates wer asserved. Some
changes were constituted to pastmatern outalyers and at
necessary due to the taxicity of the Test malerial.
The services showed alopeein at Termination-There
wer no atten gross finding.
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DATA REVIEW	FOR	MCO I E	CI C	IKKII	MIION	1651	ING (281-4)	
Product Manager: MRID No.: 41640 Testing Laborato Author(s): Rus Species: Rabbit, Sex: Female Source: Monico Dosage: 0.1 ml Test Material: Quality Assurance	Ty: S Ty E.T New: New: New: New:	goring bon Zush Zeskan Zeskan Zeskan Zeskan	ري هي الماري 185	wite Wi	eight	Re Rej	port l	Date: .	rkarian ,114/40 .39-300
Summary:									
Tox. Category:		_ C1.	assif:	icatio	מכ: _	Su	Spane	utay	
Procedure (Devia the conjunctived irright educated a que to Drueve at 1, at Termination of to evaluate the e	sacef valter	the . the 2.	right en the d	ye cos pregnat me con	recent un T Days	حمله 63ء <u>امد</u> جبر ۲۰ ۵ م	لله فووة خد سن خستاء	e Scor	ui mala viere est accounting
			Obse	ervat:	ions				
	Hour	(numb			ze"∕n	umber	test	ed)	
0	1_1	1	2	3	4	7	14	21	
Cornea Opacity	0/3	1/3	1/3	1/3	-	6/3		<u> </u>	
Iris	3/3	2/3	9/3	9/3	_	0/3	ŧ		Ī
Conjunctivae Redness	3/3	3/3	3/3	3/3		9/3		ļ 	
Chemosis	3/5	3/3	3/3	3/3	_	%3			i
Discharge	3/3	3/3	2/3	9/3		9/3			
			<u> </u>			ļ 			<u> </u>
; i		 			<u> </u>	ļ			<u> </u>
•									
Comments: The	چىدى	رلزسو		م سد حد	_ %	نه عد	· valo	pata	2-2

Product Manager: (-45) Reviewer: L. Markarian	
MRID No.: 416423-04 Report Date: 11/14/40	
Testing Laboratory: Food & Drug Research Laboratories Report No. FD-90-120	
Author(s): Elizabeth L. Reagan FDEL # 90-0044	
Species: Rabbit, New Zerdand white	
Sex: Male Weight: 1.01-2.27kg	
Source: Harleton Research Products Inc. Denver, Pa	
Dosage: c.imi	
Test Material: MON 35035 Bala / Lot: PIT 8906-603F	
Quality Assurance (40 CFR \$160.12):	
Summary:	
Tox. Category: Classification: Came quade Come	
Procedure (Deviation From §81-4): 0.1ml as Test article (as received were ; with the right conjunctival sax of six rabbits. Observations were as	
1,24,48, 72 hos and Days 7+10 according to Draise, Alleges were washed as	ر ي
after the after readily. Examination for initations were made with pen light	
followed by Treatment with sodium thurscen and examination with sit light	
equepped with she filter. At Terrivation animal was enthanized with	"1

Results:

				ervati						
	(number "positive"/number tested)									
•	Hour	Hour Days								
	1	1	2	3	4	7.	10	21		
Cornea Opacity	0/6	%	0/6	0/6		%	0/6			
Iris	5%	3/6	%	%	-	%	%			
Conjunctivae Redness	6/6	6/6	6/6	5/6		2/6	0/6			
Chemosis	6/6	6/1	6/6	6/6		96	%			
Discharge	6/6	4/6	%	9/6		0/6	%			
blistering at	6/6	6/6	96	0/6		%	%			
stictering of nictating members	6/6	6/6	1/6	%		%	%			
·										

Comments:	2 reduces 2	مهاعسد متل	Toays	wens	Gradie 1	(how bemarcabele)
Time er	censi deal	pasitive	reattin	<u>.</u>		

Product Manager: (0)	Reviewer: L. Markarian
MRID No.: 4164 23-04	Report Date: 11/14/40
Testing Laboratory: Springborn Labora	
Author(s): Rusty E. Rush	345 # 3044.46
Species: Rabbit, New Zerland wh	
Sex: Female	Weight: 2.0-2.3
Source: Mohican United Rabbitry,	Loudanville, Ohio
Dosage: o.lml	
Test Material: Mon 35085 Lo	
Quality Assurance (40 CFR \$160.1	2): inchecled
Summary: Tox. Category: Classific	cation: Core minimen
	: Unailuted test material was just illed
12 has and on day Janardin & Draw	o. The eyes were examinated at 1.24,47 zee. At a 4 hor after examination flustered
	werethereges. Fluorescen was used &
	ere positive for operity. AT Tarminating
Aumas were enthenized with	

Results:

				ervat							
	(number "positive"/number tested)										
	Hour	Hour Days									
	1	1	2	3	4	7.	14	21			
Cornea Opacity	9/6	6/6	6/6	6/1		2/6					
Iris	6/6	3/6	0/6	1/6		%	}				
Conjunctivae Redness	6/6	6/6	6/6	0/6	-	6/6					
Éhemosis .	6/6	6/6	96	6/6	_	4/6					
Discharge	6/6	4/6	2/6	%		%					
: Sloughing of-	6/6	6/6	6/6	5/6	-	0/6					
Vasculari zoet can	%	%	0/6	%		3/6		,			
is Stippling of Lornes	%	0/6	1/6	3/6		%		· · · · · · · · · · · · · · · · · · ·			

Comments: Slowling of corner occurs when There is cornect lesione lesione lesione the last slowling is.

Since There was aparity at ? days, the absorbations

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should have been entended to seed the as no initalian wer absent

DATA REVIE	W FOR	ACUTE	EY E	IRRIT	MOITA	TEST	'ING (§81-4)		
Product Manager MRID No.: <u>A.6.2</u> Testing Laborat Author(s): He	ory: _	ox, K	on Co.	rporat		R.e	port	Date:	rkarian 1114/40 2-90-106	
Species: Rab Sex: Male Source: Pine	oit. New	Zeal	and c	W	eight	: <u>a</u>		7.60 FF.		ж С
Dosage: 6.\ Test Material: Quality Assuran	MON	35 08	<u>5 L</u> 6	 19 :π	7-39	OG-G	ر تا (= جعا :			
Summary: Tox. Category	. (1)	C1.	assif	icati	on:	C	n (·			
Procedure (Devi in the conjunction 48,72 has and a eyes were wearle examination of	rul some. ndays.	: 0gth 4,5,6 t. 0.9	u left 6 crccos % sali	eye :	غنده الد	Str. E	میں صفر	e exam	ired cat 1	, a.
Results:		· 	<u> </u>	ervat	ions				- ···-	
		(numb		ositi	ve"/n	umber	test	ed)		
	Hour		<u>-</u>	Da	ys 					
Ciman	_1	1	2	3	4	5	6	 		
Cornea Opacity	0/6	0/6	%	%	%	%	%			
Iris	0/6	%	0/6	%	%	%	96			
Conjunctivae Redness	96	1/6	%	0/6	0/6	0/6	9/6			
Chemosis	4/6	1/6	0/6	0/6	0/6	0/6	0/6			
Discharge ·	0/6	0/6	%	%	%	0/6	%	-	-	
}					-				-	

rouse or our mouse en about, come en experimentementament springer about the second of the Second of

Comments:			: 	 <u></u>
	· ·	 -		

Product Manager: (25) Reviewer: L. Markarian
MRID No.: 416423-04 Report Date: 11/14/40
Testing Laboratory: Bro/dynamics, Inc. Report No. BD-90-123
Author(s): Dunna L. Blaszcak
Species: Robbit, New Zealand white
Sex: 4 Males 2 Females Weight: not specifical
Source: Harleton Research Animak; Inc. Denver Pa.
Dosage: o(m)
Test Material: MON 35085, LoT: PIT 8906- 603 F
Quality Assurance (40 CFR \$160.12): we was
Summary:
Tox. Category: Il Classification: come memimum
Procedure (Deviation From §81-4): Undilected Test material was wet illed in
the conjunctival saw of the eyes. Eyes were examined at 1, hor + on days 1,2,3,7,14621
Follower intillation 5 eyes were anotherized during institution after the first
animal appeared to be in pain. Afterthe 24 by observation all eyes were rinsed to
remove resident motorial. Fluorescein war used starting with 24 hr observation
· · · · · · · · · · · · · · · · · · ·

Results:

			Obs	ervat:	ions			
		(number "positive"/number						ed)
	Hour			Day	/ S			
		1 ,	2	3				23
Cornea Opacity	0/6	*2/6	2/6	1/6	4	9/6	4 4/2	21
Iris	46	0/6	0/6	0/6	_	%	0/2	0/1
Conjunctivae Redness	4/6	4/6	4/6	1/6	_	9/6	o/2	0/1
¢ Chemosis	46	2/6	%	%		96	9/2	0/1
Discharge	6/6.	0/6	%	%		96	%	%
! Ulceration of	0/6	1/6	1/6	96		0/6	0/2	%
<i>l</i>								
		i						
				····		 .	• • •	· · · · · · · · · · · · · · · · · · ·

* refrect unaudien or Grazia + indian persist at a day 19 in lawinol - it is comidered unferrence by the Diois Setem. . I'm ween the teapered continuation for a bicevation

Whenen There is positive Staining and it roust be indicated as such مع عالاد" hetrich is significan Ulcoration of correct is correct leaster and must be indused in opening it is not clear if alcoration did and main at 72 the forward consider in the

Product Manager: (35) Reviewer: L. Markarian
MRID No.: 416423-04 Report Date: 11/14/190
Testing Laboratory: WIL Research Laboratories Inc. Report No. WI-90-091
Author(s): Dennis I. Naac Wil sol 20
Species: Rabbit, New Zealand While
Sex: 2 07 4 9 Weight: 24+3-2730 5 tams
Source: Clerco Researce Farm, Cincinnati, and
Dosage: O.I.ml.
Test Material: MON 35085 Lat: PIT 3906-603F
Quality Assurance (40 CFR \$160.12): induaded
Summary: Tox. Category: II Classification: Come minimum.
Procedure (Deviation From §81-4): Undiet at Test material was intilled in
the right conjunctived soes, observations were cit 1,24,48,72443 and an days 4,7,410, After the 24 horossociation the test transved eyes were worked with tapwater, Fluorescein was used after the 72 no observation All scoring was according to Domize. At Termination The
rabbillo were sanificed with an overclose of intravenous anasthesia. Light source was pontight. Ultravidet was used for examing function sairesty co.
Danilla

Results:

			. Obse	ervat	ions		_			
		(number "positive"/number tested)								
	Hour		· -	Day	ys					
	1	1	2	3	4	7.7	10			
Cornea Opacity	%	°/6	%	0/6	%	0/6	%			
Iris	0/6	0/6	0/6	0/6	0/6	0/6	0/6			
Conjunctivae Redness	6/6	6/6	6/6	6/6	6/6	0/6	9/6			
¢ Ghemosis	6/6	4/6	3/6	2/6	0/6	0/6	0/6			
Discharge	4/6	5/6	4/6	1/6	96	0/6	0/6			
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				<u> </u>		<u> </u>				

Comments: Tentight is not adequate 5 course of civit for examinary

borderline Icsians. In view often fait That fluorescein was not usual of

24 has the presence. or the absence of Cornal learn was not confirmed 444

later examination with fluorescein gave any unobserved learns time to

head and may have been missed. Eyes should have been washed.

with soline.

redino 1

in 14 man cabele

Product Manager: (みゝ)	Reviewer: L. Markarian
MRID No.: 4164 23-04	Report Date: "/14/40
Testing Laboratory: Younger Laboratories In	Report No. Yo-90-29
Author(s): Michael T. Evans	
Species: Robbit, New Zentond white	
Sex: "Mixed sey" We	eight: unspecified
Source: unspecifical	
Dosage:o.lml	
Test Material: MON 35035 Lot PI	78906-603F
Quality Assurance (40 CFR §160.12):	none included
Summary:	•
	<
Tox. Category: Classification	on: Supplementary
Procedure (Deviation From 681-4): Pm	reduced in the constituent. There is
Procedure (Deviation From \$81-4): Pro indication That Protocal "C 1.50/Chang"	now our the nature of the days
nor the protocol is given. Inthe observation	o F Comment the state of the Till.
ration experience discomfort ofter instillation	
. I closely expertightly, Alow indicated is the	e moderale reduces + conjour distino
at 10 minutes + 14. At a 44x 5/6 a rimales nos	is away foundy perceptation correct
· Duthers. There is no indication of fluorexein	being rescalts confirm any of the
finding. The light source also but indicate Paculte + 72 by & Con Day 7	d. 5 valuation es 1 24. 45
Board to a Taken of Con Day 7	/04/11

	(numbe	er "po			umber	test	ed)
Hour	<u>.</u>	,	Day	/ S	1		
1	1	2	3	4	7 .	14	21
%	1/6	%	0/6		%		·
%	%	0/6	96		%		
6/6	6/6	5/6	96	-	%		_
0/6	0/6	%	%	-	0/6		
6/6	6/6	6/6	6/6		%		
							<u> </u>
	Hour 1 % % % % % % % % % % % %	Hour 1 1 9/6 1/6 9/6 9/6 6/6 6/6 0/6 0/6	(number "po Hour 1 1 2 % 1/6 % % 6/6 % 6/6 6/6 5/6 0/6 0/6 0/6	(number "positive Hour" Day 1 1 2 3 96 16 96 96 96 96 96 66 66 56 96 96 96 96	Hour Days 1 1 2 3 4 96 1/6 9/6 0/6 - 96 0/6 0/6 9/6 - 6/6 6/6 5/6 9/6 - 0/6 0/6 0/6 0/6 -	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

Comments: Flecoescein ment be usual to confirm any carned finding at 24 hrs. Protocalso procedures must be included in the report as well as the Source, how many in each sex of weight any the animo must be stated. The regulations require That each study induce a quality assumance state ment.

DATA REVIEW FOR SKIN IRRITATION TESTING (§81-5)

Product Manager: (25) MRID No.: A16423-05 Report Date: 1/14/40 Testing Laboratory: Springborn Laboratories The Report No. 53-90-193 Author(s): Resty E. Ruch Species: Rabbit, New Zesband work, Modern Volley Rabbitry, Loudonville, OH Age: Young adult Sex: 307339 Weight: 21-218 Kg Dosage: 0.5 ml Test Material: Mon-35085 Lot: Pit-9003-1765 F Quality Assurance (40 CFR §160.12): new deal
Summary:
The Primary Irritation Index = 0.38
Toxicity Category:
Classification: Core Guideline
Procedure (Deviations From §81-5): 0.5 ml of undiluted Test material was applied to Two 1x1 indi sites on the showed doesem of rabbits. The sites were covered with gover addresse policy and a stadistate sleeve were positioned around the Trunk secessed by Tape. At this the wingping were removed & sites rived with distilled water. Test sites were examined at 1,24,48 & 12 has according to a scale cimilar to Daise. At Termination the animals were enthanced by T-61
Results:
At the 6/2 showed Grade 1 engineema and 6/12 showed Grade 2
engthema with he esterne. At 24 by no installine was absented
vor was it observed at subsequent jutervals.
Special Comments:

DATA REVIEW FOR SKIN SENSITIZATION TESTING (§81-6)

Product Manager: (25) Reviewer: L. Markarian	
MRID No.: 416423-07 Report Date: 1/19/40	
Testing Laboratory: Budaynamics Inc Report No. 130-90-303	۷
Author(s): Donna L Biaszcak	
Species: Guinea Pig, Hartley	
Sex: 13 07 13 42 5-6 Weight: 353-3868	
Source: Harleton Research Animals. Inc., Denver Pa	
Test Material: MON 35025 Lot PIT-9003-1765F	
Positive Control Material: Reference que to recent DNCB studito	
Quality Assurance (40 CFR \$160.12): \ncuedd	
Method: Beubler	
Summary:	
 This product is his not a dermal sensitizer. 	
2. Classification: Conquideline	
Procedure (Deviation From \$81-6): Pretent screening was made uning 6	•
Guiven pigs (307632) using 100%+50%, 27% 410% UN diluture in distilled walk	
IN Hill top chambers in 0.3 ml aliquate. The chambers were eccoured with	
impermable plactic occlusion + clastic adhesive bandage unapped asound the	د
Thank of The animals. Exposure was for 6 for, at These time the anapping	
were removed + the city were evaluated at 240 98hrs, No in take	
was observed at any site atany interval therfare Industria + exicitation	C.
were made at 1000 Danial similar the process and	,- نر
were made at 100%. Applied similar to the prescreency applications. Two groups of animals were used. 10 for test (507+159) and 10 for naive centrals. Reference is given to success ful induct	, ,
Too groups of authors described to for took (20 444)	
and to for naive centrals, reference is given to success full induction	دس
I elicitation of sensitization with DNCB. The Test group received	_
3 industicu applications one week apart. Challenge iven mode a	~
a naive vite 14 days after the last industran in boile test and ha	4.0
cultule applied as 1000 indism! aliquele intullères chambos	- 4
secented with plastic & adhesive take wrappings. After 6 hrs the wappin	P
more toto veril & sites evaluated. Industion o challange bite were evaluated at 24 & 48 has if exapple	and the second
Induction a challange bite were evaluabled as a to 48 ms . Metappe	مردماد محود
No initation were observed after the industrian application	·
and challenges of either 24 or 43 hrs I have animal.	
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File Lost Updated Current Date 11/14/40 Tox Chem No. 661 A GWphosate EPA Results: TOX. COME Grade/ Accession Study/Lab/Study 4/Date LDSO, LCSO, PIS, NOEL, LEL Haterial Cat. Doc. No. Ho. Acute Oral Toxicity 416023-cz LDgo Greater Than 5000 mg/fg $\nabla \overline{v}$ MON-35035-Guilelium Lot: PIT 9003-1765 1= Limit Test "Springborn Laboration is, I he Life Science Division 853 North Broadway Spancerville, OH:0 4 \$87 58-40-191 Gسانقه لزسع $\overline{\mathbf{M}}$ (4164 23-03 | LDSO Greater Than 5000 mg/kg Acute Dermal Toxicity Limit Text (Rads) Spring born haborationis. The. 9/6/90 50-90-192 416423-06 LC500 2.5 (1.7282-3.9911) my/g $\overline{\Pi}$ (residelino) Acute Inhabation Toxicity LC50 Q 2.7 (1.9102-4,3600) mg/18 LDGO STUBY combined 2.6(2. 1016 - 3, 2716) mg/H Monsauto Company Environmental Health Laboratory 695 S. Newstand Ave. St. Louis, Missouri 631110 ML -90- 131/EHL 90073 Supplementan 416423-00 Primary Eye Irritation 1400 32082 Springborn Laboratories Inc. 553 North Broadway Spancerville, Ohio 50-34-300 8/22/89 416423-04 Opacity gresent at 7 days in Ĩ_ Core minimum Primary Eye Instation MON 35085 1 animal Spring born Laboretories Inc. LJT: PIT 3906-603 F 553 North Broadway Epancerville, Ohro

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Glyphosost Tax Chem No.

File Lant Updated

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Gody/Lab/Study #/Date	Haterial	Acceosion. Ho.	Results: . LDsg, LCsg, PIS, NoEL, LED	10% C4°;	CORE Crade/ Doc. Mo.
Primary Eye Irritateus (Man 35 085- Fact & Day Reserved Lation PT 3906-603F	Man 35 685- Lot: Pt 8406-603F	416423-04	AN installed a contesting	111	8
(010-628 41 XX 1 010-00 000)	<u>.</u>				
Primary Syc Installan	, gi ³ , ster	मार्थका अन्तर	All instable channel by	=]	
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Primary E. Protation	:	70.73	All your tout ion at sound by	(<u>;</u> \	Course Williams
Bio Dynamics, Inc	or or		Dayy	······································	
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S. T. T. O. F. C. C.	=	416423.24	•	:	
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Sain Louis, Mo 63129		otoonte të	•		a valence village
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Tox Chem No. 6 Gyphosate

File Loot Updated

Current Date 0 14 46

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STudy/Lab/Study Ø/Nate	Haterini	EPA Accession No.	Results: LD ₅₀ , LC ₅₀ , PIS, NOEL, LEL	TUX. Cnt.	COULE Grade/
Primary Dermal Irritation Springborn Laboratories, Tre Life Sciences Division 553 North Brondway Spencerville, OH 45887 5B-90-193 8/15/90	MON 35 085 Lot PIT-9003-1765F	416423-0r	Practically van contating		Gundeline
Dermal Sentization Bio/Aynamics, Inc. Menlers Road East Millstone, NJ.08715.	MON 35035-1765=	416423-07	Not a seasifice		qui eleté ue
09/17/8 EOG-09-ER					
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CONTROL OF EASTERNA

Attn: Robert J. Taylor (PM 25)

Dear Sir:

Enclosed please find a new Confidential Statement of Formula (CSF) for MON 35085. This new CSF rreplaces the form we submitted on ______.

In accordance with a phone call on November 20 from Mike Clifford (EPA) to Robert Street (Monsanto), we have reexpressed the composition of MON 35085 in terms of the ingredients added to the formulation in their respective amounts.

Please contact Kevin Cannon at our Washington office if there are any questions.

Sincerely,

Bob laylor,

Re: MON-35085

12-3-90

RPS

Mike Clifford requested this revised CSF for Mon-35085 -

Please replace the old CSF with the enclosed new CSF.

Ferrim-

RIN 910-02
EPA Registration File Jacket # 534-445
Page is not included in this copy.
Pages 463 through 455 are not included in this copy.
The material not included contains the following type of information:
Identity of product inert ingredients.
Identity of product inert impurities.
Description of the product manufacturing process.
Description of quality control procedures.
Identity of the source of product ingredients.
Sales or other commercial/financial information.
A draft product label.
The product confidential statement of formula.
Information about a pending registration action.
FIFRA registration data.
The document is a duplicate of page(s)
The document is not responsive to the request.
The information not included is generally considered confidential by product registrants. If you have any questions, please contact the individual who prepared the response to your request.

Monsanto

Monsanto Company Suite 1100 700 14th Street, N.W. Washington, D.C. 20005

September 19, 1990

Document Processing Desk (APPL)
Office of Pesticide Programs - H7504C
U.S. Environmental Protection Agency
1921 Jefferson Davis Highway
Crystal Mall #2, Room 226A
Arlington, Virginia 22202

ATTENTION: Robert J. Taylor

Product Manager (25)

SUBJECT: Request for Registration of a New Product Containing

Glyphosate: MON-35085 herbicide.

Dear Sir:

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Roundup herbicide (EPA Reg. No. 524-308), a formulation containing the isopropylamine salt of glyphosate, is registered for use in both agricultural and non-agricultural sites using a variety of application techinques.

For the past several years Monsanto has been working on the development of a new liquid formulation of glyphosate which would reduce the eye irritancy normally found with Roundup. MON-35085 herbicide is that product.

MON-35085 contains the isopropylamine salt of glyphosate in the same concentration as Roundup (41.0%), but with half the surfactant load The reduction in surfactant concentration appears to reduce the eye irritation observed in the current Roundup formulation and in our opinion requires a "CAUTION" signal word.

Since the only change in the formulation is the surfactant concentration, all other data necessary to support the registration of glyphosate and the agricultural and non-agricultural uses remain unchanged.

The enclosed eight-volume submission, designated R.D. 1001.

contains product chemistry, acute toxicity, label use instructions and the administrative materials required for the registration of MON-35085. We ask the EPA to approve this submission as quickly as possible.

If you have any questions regarding this request, please contact Dr. Kevin Cannon or me.

Sincerely,

Russell P. Schneider, Ph.D. U.S. and International Registration Director

cc: K. Cannon

I. O'Connor

N. Yates-Parker

U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs

MONSANTO COMPANY 700 14TH ST., NW, SUITE 1100 WASHINGTON, DC 20005

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OUT 9 years

Report of Analysis for Compliance with PR Notice 86-5

Thank you for your transmittal of 09/26/90. Our staff has completed a preliminary analysis of the material. The results are provided as follows:

The data accompanying your application have passed our initial screen for compliance with the standards for data submission contained in PR Notice 86-5. A copy of your transmittal bibliography is enclosed, annotated with the Master Record ID's (MRIDs) we assigned to each document. Please use these numbers in all future references to these documents. Thanks for your cooperation.

TRANSMITTAL DOCUMENT

SUBMITTED BY

Monsanto Agricultural Company 800 N. Lindbergh Blvd. St. Louis, Missouri 63167

REGULATORY ACTION IN SUPPORT OF WHICH THIS PACKAGE IS SUBMITTED

Registration of MON-35085 herbicide

TRANSMITTAL DATE

September 19, 1990

SUBMITTED STUDY

R.D. NO. 1001

LIST OF SUBMITTED DOCUMENTS

Volume 1:

Administrative Material Required for the Registration of MON-35085 herbicide.

Volume 2: 41642301 Schuette, S.A., "Product Chemistry Data for MON-35085 herbicide" (1990), MSL-10294, an unpublished report by Monsanto Agricultural Company. (Guideline Series 61, 62, 63).

volume 3: 41642802 Rush, Rusty E., "Acute Oral Toxicity Study in Rats with MoN-35085" (1990) SLS Study No. 3044.72, an unpublished study by Springborn Laboratories, Inc., conducted for Monsanto Company. (Guideline 81-1).

Volume 4: 4642303

Rush, Rusty E., "Acute Dermal Toxicity Study in Rats with MON-35085" (1990) SLS Study No. 3044.73, an unpublished study by Springborn Laboratories, Inc., conducted for Monsanto Company. (Guideline 81-2).

Volume 5:

(Part A). Rush, Rusty E., "Eye Irritation Screening Study in Rabbits" (1989) SB-89-300, an unpublished study by Springborn Laboratories, Inc., conducted for Monsanto (Part B). Reagan, Elizabeth L., Company. "Primary Eye Irritation Study of MON-35085 in New Zealand White Rabbits" (1990) FD-90-120, an unpublished study by Food & Drug Research Laboratories, conducted for Monsanto Company. (Part C). Rush, Rusty E., "Primary Eye Irritation Study in Rabbits with MON-35085" (1990) SB-90-003, an unpublished study by Springborn Laboratories, Inc., conducted for Monsanto Company. (Part D). Lilja, Herman S., "Primary Eye Irritation Study in Rabbits Test Substance: MON-35085" (1990) TO-90-106, an unpublished study by Toxikon Corporation, conducted for Monsanto Company. (Part E). Blaszcak, Donna L., "Eye Irritation Study in Rabbits Test Material: MON-35085" (1990) BD-90-123, an unpublished study by Bio/dynamics Inc., conducted for Monsanto Company. (Part F). Naas, Dennis J., "Primary Eye Irritation Study in Albino Rabbits with MON-35085" (1990) WI-90-091, an unpublished study by WIL Research Laboratories, Inc., conducted for Monsanto Company. (Part G). Evans, Michael J., "Primary Eye Irritation (Albino Rabbits)" (1990) YO-90-291, an unpublished study by Younger Laboratories, Incorporated, conducted for Monsanto Company. (Guideline 81-4)

Volume 6:

Rush, Rusty E., "Primary Skin Irritation Study in Rabbits with MON-35085" (1990) SB-90-193, an unpublished study by Springborn Laboratories, Inc., conducted for Monsanto Company. (Guideline 81-5).

Polume 7: Heliosadi Dudek, B.R., "Acute Inhalation Study of MON-35085" (1990) ML-90-181/EHL 90073, an unpublished study by Monsanto Company. (Guideline 81-3).

Volume 8: 4642307

Blaszcak, Donna L., "A Closed-Patch Repeated Insult Dermal Sensitization Study in Guinea Pigs (Buehler Method) Test Material: MON-35085" (1990) BD-90-203, an unpublished report by Bio/dynamics, Inc., conducted for Monsanto Company. (Guideline 81-6)

COMPANY OFFICIAL:

Russell P. Schneider, Ph.D. Jun drauma

U.S. and International Registration Director

COMPANY NAME:

MONSANTO AGRICULTURAL COMPANY

COMPANY CONTACT:

Dr. Kevin F. Cannon (202) 452-8880

United States Environmental Protection Agency Office of Pesticide Programs (TS-767)

OPP Identifier Number

		washington, De	20460			1 1	/ 12C 71 ·
SEPA	Application	for Pesticio	de: -	_	stration ndment	1	43671
		Castian				!	
Company/Product Number	2. Date	Section	3 Prod	uct Manager		I4. Prop	osed Classification
Monsanto / 524-XXX-ひひし	September 19	9, 1990			ylor (25)	[rez	General Restric- ted
Name and Address of Applicant (Inc.)	lude ZIP Code)						
Monsanto Company							
700 14th Street, N.W.,	#1100				•		1
Washington, D.C. 20005	5			• •			
Check if this is a new address							
6. Product Name							
	Glyphosate/MO	ON-35085 Her	bicid	e			
	Coatio	n II - Amendme	ont Info	ormation	•		········
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Application for registr	ation of glys	phosate form	ulati	on MON+3	35085 herbic:	ide	
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		Section		• • • • • • • • • • • • • • • • • • • •			11
1. Material This Product Will Be Packa	oed in	000			***************************************	2. Type	e of Container
Child-Resistant Packaging	Unit Packaging		Water-	Soluble Pack	aging	†	Metal
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3. Location of Net Contents Information	n 4. Size(s) of Retail (Container				1	
Label X Container	2.5 gallon	, 30 gallon					
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		} ₁					
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Dance Confected if nece	essary to process this	application).				·····-	
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Kevin F. Cannon,	Ph.D.						
Title			Telept	hone No. (Inc	lude Area Code)		e Application Received
Manager, Agricul	ltural Affairs	S	(202	2) 783-24	460	(2)	tamped)
7		fication		· 		-	
I certify that the statements I h			nents the	ereto are tru	e, accurate, and	1	
complete. I acknowledge that a		or misleading state	ment m	ay be punis	hable by fine or	1	
imprisonment or both under appl	icable law.						•
2. Signature			3. Title	9			
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4. Typed Name	·			e Signed	on Director		
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Kussell P. S	Schneider, Ph	. D .	Sep	tember	19, 1990		460

Paperwork Reduction Act Notice and Instructions

Paperwork Reduction Act Notice

Public reporting burden for this collection of information is estimated to average of 0.85 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

Instructions

General

This form is to be used for all applications for new and amended registrations for pesticide products.

In order to process an application for new registration submitted on this form, the following material must accompany the application:

- Offer to Pay Statement (EPA Form 8570-27, -28, -29). (II not exempted by 40 CFR 162.9-1(b).)
- 2. Confidential Statement of Formula (EPA Form 8570-4).
- 3. Five copies of draft labeling.
- 4. Three copies of any data submitted.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8 1/2 x 11 inch paper or as a mockup of the proposed label. If prepared as a mockup it should be constructed in such a way as to facilitate storage in an 8 1/2 x 11 inch file. Mockup labels significantly smaller than 8 1/2 x 11 inches should be mounted on 8 1/2 x 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

Specific

Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Section I, III, and IV must be completed by the applicant. For applications submitted in connection with amended registration actions, Section 1, 11, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

Section I - This Section must be completed for both Registration and Amended Registration actions.

- 1. Company/Product Number Insert your company number, if ohe has been assigned. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If application is for an amendment, insert the registration number of the product.
- 2. Date Fill in the appropriate date.

Product Manager - If known, fill in the name and number of the Product Manager.

74. Proposed Classification - Specify the proposed classification

for this product.

5. Name and Address of Applicant - The name of the firm or person and address characteristics. person and address shown in your application is the person or firm to whom registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters.

An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.

6. Product Name - Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.

Amendment Information

Section II - This Section must be completed for all applications submitted in connection with Amended Registration.

1. Subject of Amendment - Check the appropriate block, and provide a brief explanation of the purpose(s) for the amendment, such as: "the addition of a site, pest, or crop"; "to change inert ingredient"; "general label revisions of precautionary statements," étc.

Packaging and Container Information

Section III - This Section must be completed for all applications submitted in connection with New Registration.

- 1. Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types. Indicate the size of the individual packets and number per retail container.
- 2. Type of Retail Container Indicate type of container in which product will be marketed.
- 3. Location of Net Contents Specify the net contents of all retail containers for your product.
- 4. Size(s) of Retail Container Specify the net contents of all retail containers for your product.
- 5. Location of Use Directions Indicate the location of the use directions for your product.
- 6. Manner in which label is affixed to product Indicate the method product labeling is attached to retail container.

Contact Point

Section IV - This Section must be completed for all Registration and Amended Registration applications.

- 1-5. Self-explanatory.
- 6. EPA Use Only.

2. EPA USE ONLY

S ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIOE PROGRAMS (WHISS) WASHINGTON, OLC, 20460

LABEL TECHNICAL DATA

(See INSTRUCTIONS on Sack of last part)

524-XXX

3. PRODUCT NAME

MON-35085 Herbicide

IL COMPANY (REDISTRATION NO.

APPLICATION SITES	5.	PEST TYPE	7.	USER TYPE
(Check all that apply)	.	(Check all that apply)		(Check all than apply)
os caops (Fndi)		31 ALGAE	X	OI UNSPECIFIED SENERAL USE
32 CROPS (Vegetable)	<u> </u>	OF AMPHIBIAN/REPTILE		OZ UNSPECIFIED RESTRICTED US
33 CROPS (Field)	<u> </u>	C3 SACTERIA		03 HOMEOWNER USE
34 trops (Soice)		34 81805		32 JAIPOTINAL 46
DE CROPS (Ner)) 5 F1SH		25 PEST CONTROL OPERATOR US
39 CROPS (Other)		36 FOULING ORGANISMS	X	06 COMMERCIAL APPLICATOR US
10 SOIL TREATMENT (No crop specified)		27 FUNGI	X	OT FARMER USE
20 FOREST	<u> </u>	DO INSECTS AND MITES "		OR MEDICAL USE
20 ORNAMENTALS	<u>. </u>	39 MAMMALS		09 VETERINARY USE
40 TURE		IN NEMATODES		TO GOVERNMENT AGENCY USE
19 STORED PRODUCTS TREATMENT	Х			11 MANUPACTURING USE
1 1 ANIMALS (Livestock)		IZ RODENTS	е.	FORMULATION
12 ANIMALS (Dairy)	[ta suime		(Check one only)
1 53 ANIMACS (Par)	}	14 SEUGS AND SHALLS		OF TECHNICAL CHEMICAL
14 ANIMALS (Laboratory)		IS VIRUS		SE FORMULATION INTERMEDIATE
49 INIMALS (Other)		:6 OTHER (Specify)		, 03 DUST
71 OUTDOOR (Nocion Agricultural)		-		14 GRANULAR
72 DUTDOGR (Resident/Commercial)	}		Ĺ	35 PELLETED/TABLETTED
73 OUTDOOR (Non agricultural)	[<u> </u>		36 METTABLE POWOER
3 1 3UILDINGS (Agricultural)	5.	MODE OF ACTION	Ī	07 METTABLE POWDER/QUST
32 BUILDINGS (Commercial)	Ţ	(Check all that apply)	[DE CRYSTALLINE
33 BUILDINGS (Food Processing)		D) ATTRACTANT		DE MICROENCAPSULATED
34 BUILDINGS (Medical)	ĺ	32 BIOLOGICAL CONTROL		10 IMPRESNATED MATERIALS
45 BUILDINGS (Realdenrial)	1	13 CHEMOSTERILANT	Ī	IT SELF-GENERATING SMOXE
31 EQUIPMENT (Commercial)		04 DEPOLIANT		12 EMULSIFIAGLE CONCENTRATI
DZ EQUIPMENT (Food)		THADDIZEC ED		12 INVEST EMULION
23 EQUIPMENT (Agricultural)		06 FEEDING DEPRESSANT		14 FLOWABLE CONCENTRATE
14 EQUIPMENT (Medical)	X	37 GROWTH INHESITOR	X	PTAFFMEDICE SUBSIDER
35 EQUIPMENT (Transportation)		38 SROWTH REGULATOR		16 SOLUTION 'Ready to Use)
DRINABUR YRC GRA YRONUAL SE		og ¤oison (Single dose)	1	17 OILS 'No added pasticide)
17 INDUSTRIAL PRESERVATIVES	I	10 POISON (Multiple Doze)		IS PRESSUALZED (Gaz)
38 PESTICIDE (Manufacturing only)	Ī	11 PRESERVATIVE		19 PRESSURIZEO (Liquid)
39 OTHER (Specify)	1	12 REPELLENT		20 PRESSURIZED (Dust)
1	\Box	13 OTHER (Specify)		ZI OTHER Specify
	1			
le ·	1			}

REMARKS

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EPA Form 8570-10 (11-74)

CERTIFICATION WITH RESPECT TO CITATION OF DATA

EPA File Symbol/Reg. No. 524-XXX Date of Application September 19, 1990
Name of Product MON-35085 Herbicide
Applicant's Name and AddressMonsanto Company
700 14th Street, N.W., #1100
Washington, D.C. 20005
1. This application is supported by all data submitted or cited in the application. In addition, if cite-all options are indicated, this application is supported by all data in the Agency's files that concern the properties or effects of this product or of any other product that is identical or substantially similar, and that is one of the types of data that would be required to be submitted if this application sought the initial registration of a product of identical or similar composition and intended uses under the data requirements in effect on the date of approval of this application.
2. I certify that, for each study cited in support of this application for registration that is an exclusive use study, I have obtained the writter permission of the original data submitter to cite that study.
3. I certify that, for each study cited in support of this application for registration that is <u>not</u> an exclusive use study:
I have obtained the written permission of the original data submitter to cite that study; $\underline{\text{or}}$
I have notified in writing the companies who have submitted data I have cited to support those applications and have offered to: (a) Pay compensation for those data in accordance with section 3(c)(1)(D) and 3(c)(2)(D) of the Federal Insecticide, Fungicide and Rodenticide Act; and (b) Commence negotiations to determine which data are subject to the compensation requirements of FIFRA and the amount and terms of compensation due, if any. The companies I have notified are: (Check one)
[] All companies listed on the Pesticide Data Submitters List for all active ingredients contained in my product (Cite-all method or cite-all option under Selective Method). (Also sign the General Offer to Pay Statement below).
[X] Monsanto Company has submitted the studies which I have cited (Selective Method). Date September 19, 1990 Signature Ques Symmetry
Date September 19, 1990 Signature Vius drywow
Title U.S. & International Registration Director
General Offer to Pay: I hereby offer and agree to pay compensation to other persons, with regard to the approval of this application, to the extent required by FIFRA sec. 3(c)(1)(D) and 3(c)(2)(D).
Date September 19, 1990 Signature Lus June
Title U.S. & International Registration Director

SECTION III Glyphosate 40 CFR 158 Data Reference List

RIN 910-02
EPA Registration File Jacket# 534-445
Page is not included in this copy.
Pages 467 through 497 are not included in this copy.
The material not included contains the following type of information:
Identity of product inert ingredients.
Identity of product inert impurities.
Description of the product manufacturing process.
Description of quality control procedures.
Identity of the source of product ingredients.
Sales or other commercial/financial information.
A draft product label.
The product confidential statement of formula.
Information about a pending registration action.
FIFRA registration data.
The document is a duplicate of page(s)
The document is not responsive to the request.
The information not included is generally considered confidential by product registrants. If you have any questions, please contact the individual who prepared the response to your request.